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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: 22550016 V3.9.9.98 August 2014 To EKON/BASTA/JAX/IBZ/SWS/EU
10: *****Now the Funclist*****
11: Funclist Function : 13078 //10766 //10165 (7648)
12: *****Now the Proclist*****
13: Proclist Procedure Size is: 8039 //6792 //6401 4752
14: *****Now Constructors*****
15: Constructlist Constructor Size is: 1296 //995 //
16: def head:max: maxBox7: 28.07.2014 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: 22413! Constructor, Function and Procedure
21: AExtraxt of EXE Functions of maxbox3.exe, locs of file = 22195
22: ASize of EXE: 22550016 (22041600) (16586240) (13511680)
23: SHA1 Hash of maxbox 3.9.9.98: 693C7F691584E518E87CF5BFFC315A5442777781
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 : TBDEDDataSet; AMode : TBatchMode) : Longint;
216: Function BcdCompare( const bcd1, bcd2 : TBcd) : Integer;
217: Function BcdFromBytes( const AValue : TBytes) : TBcd;
218: Function BcdPrecision( const Bcd : TBcd) : Word;
219: Function BcdScale( const Bcd : TBcd) : Word;
220: Function BcdToBytes( const Value : TBcd) : TBytes;
221: Function BCDToCurr( const BCD : TBcd; var Curr : Currency) : Boolean;
222: Function Bcd.ToDouble( const Bcd : TBcd) : Double;
223: Function BcdToInteger( const Bcd : TBcd; Truncate : Boolean) : Integer;
224: Function BcdToStr( const Bcd : TBcd) : string;
225: Function BcdToStrF(const Bcd : TBcd; Format: TFloatFormat; const Precision, Digits: Integer):string;
226: function beep2(dwFreq, dwDuration: integer): boolean;
227: Function BeginPeriod( const Period : Cardinal) : Boolean;
228: Function BeginTrans : Integer;
229: Function BeginTransaction : TDBXTransaction;
230: Function BeginTransaction1( Isolation : TDBXIsolation) : TDBXTransaction;
231: function BigMulu(aone, atwo: string): string;
232: function BigNumber(aone, atwo: string): string;
233: function BigExp(aone, atwo: string): string;
234: function BigMul(aone, atwo: string): string;
235: function BigAdd(aone, atwo: string): string;
236: function BigSub(aone, atwo: string): string;
237: function BigFactorial(aone: string): string;
238: Function Binary.ToDouble( ABinary : string; DefValue : Double) : Double;
239: Function BinomialCoeff( N, R : Cardinal) : Float;
240: function BinomialCoefficient(n, k: Integer): string;
241: Function BinStrToInt( const ABinary : String) : Integer;
242: Function BinToByte(Binary: String): Byte;
243: function BinToHex2(Binary: String): string;
244: function BinToInt(Binary: String): Integer;
245: Function BinToChar(St: String): Char;
246: Function BinToStr(ans: string): string;
247: Function BitBlt(hdcDest:HDC;nXDest,nYDest,nWidth,nHeigh:Int;hdcSrc:HDC;nXSrc,nYSrc:Int;dwRop:DWORD):Bool;
248: Function BitmapsAreIdentical( ABitmap1, ABitmap2 : TBitmap) : Boolean;
249: Function BitsHighest( X : Byte) : Integer;
250: Function BitsHighest1( X : ShortInt) : Integer;
251: Function BitsHighest2( X : SmallInt) : Integer;
252: Function BitsHighest3( X : Word) : Integer;
253: Function BitsHighest4( X : Integer) : Integer;
254: Function BitsHighest5( X : Cardinal) : Integer;
255: Function BitsHighest6( X : Int64) : Integer;
256: Function BitsLowest( X : Byte) : Integer;
257: Function BitsLowest1( X : Shortint) : Integer;
258: Function BitsLowest2( X : Smallint) : Integer;
259: Function BitsLowest3( X : Word) : Integer;
260: Function BitsLowest4( X : Cardinal) : Integer;
261: Function BitsLowest5( X : Integer) : Integer;
262: Function BitsLowest6( X : Int64) : Integer;
263: Function BitsNeeded( const X : Byte) : Integer;
264: Function BitsNeeded1( const X : Word) : Integer;
265: Function BitsNeeded2( const X : Integer) : Integer;
266: Function BitsNeeded3( const X : Int64) : Integer;
267: Function BlueComponent( const Color32 : TColor32) : Integer;

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

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357: Function ClearBit4( const Value : Integer; const Bit : TBitRange) : Integer;
358: Function ClearBit5( const Value : Cardinal; const Bit : TBitRange) : Cardinal;
359: Function ClearBit6( const Value : Int64; const Bit : TBitRange) : Int64;
360: function CLIENTTOSCREEN(POINT:TPOINT):TPOINT
361: Function Clipboard : TClipboard
362: Function ClipCodes( const X, Y, MinX, MinY, MaxX, MaxY : Float) : TClipCodes;
363: Function ClipCodes1( const X, Y : Float; const ClipRect : TRect) : TClipCodes;
364: Function ClipLine( var X1, Y1, X2, Y2 : Integer; const ClipRect : TRect) : Boolean;
365: Function ClipLineToRect( var P1, P2 : TFloatPoint; const Rect : TFloatRect) : Boolean
366: Function Clone( out stm : IStream) : HResult
367: Function CloneConnection : TSQLConnection
368: Function CloneMemoryStream( Original : TMemoryStream) : TMemoryStream
369: function CLOSEQUERY:BOOLEAN
370: Function CloseVolume( var Volume : THandle) : Boolean
371: Function CloseHandle(Handle: Integer): Integer; stdcall;
372: Function CPLApplet( hwndCPL : THandle; uMsg : DWORD; lParam1, lParam2 : Longint) : Longint
373: Function CmdLine: PChar;
374: function CmdShow: Integer;
375: Function Color32( const R, G, B : Byte; const A : Byte) : TColor32;
376: Function Color32( WinColor : TColor) : TColor32;
377: Function Color32I( const Index : Byte; const Palette : TPalette32) : TColor32;
378: Function ColorAdjustLuma( clrRGB : TColor; n : Integer; fScale : Boolean) : TColor
379: Function ColorHLSToRGB( Hue, Luminance, Saturation : Word) : TColorRef
380: Function ColorToHTML( const Color : TColor) : String
381: function ColorToIdent(Color: Longint; var Ident: string): Boolean
382: Function ColorToRGB(color: TColor): Longint
383: function ColorToString(Color: TColor): string
384: Function ColorToWebColorName( Color : TColor) : string
385: Function ColorToWebColorStr( Color : TColor) : string
386: Function ColumnAtDepth( Col : TColumn; ADepth : Integer) : TColumn
387: Function Combination(npr, ncr: integer): extended;
388: Function CombinationInt(npr, ncr: integer): Int64;
389: Function CombineInfo( Bitmap : TCustomBitmap32) : TCombineInfo
390: Function CommaAdd( const AStr1, AStr2 : String) : string
391: Function CommercialRound( const X : Extended) : Int64
392: Function Commit( grfCommitFlags : Longint) : HResult
393: Function Compare( const NameExt : string) : Boolean
394: function CompareDate(const A, B: TDateTime): TValueRelationship;
395: Function CompareDateTime( const ADateTime1, ADatetime2 : TDateTime) : Integer
396: Function CompareFiles(const FN1, FN2 : string; Breathe:TNotifyEvent;BreathingSender:TObject) : boolean
397: Function CompareMemoryStreams( S1, S2 : TMemoryStream) : boolean
398: Function CompareStr( S1, S2 : string) : Integer
399: function CompareStr(const S1: string; const S2: string): Integer
400: function CompareString(const S1: string; const S2: string): Integer
401: Function CompareText( S1, S2 : string) : Integer
402: function CompareText(const S1: string; const S2: string): Integer
403: Function CompareTextLike(cWildStr,cStr:string;const cWildChar:char;lCaseSensitive:boolean): boolean
404: function CompareTime( const A, B: TDateTime): TValueRelationship;
405: Function CompatibleConversionType( const AType : TConvType; const AFamily : TConvFamily) : Boolean
406: Function CompatibleConversionTypes( const AFrom, ATo : TConvType) : Boolean
407: Function ComponentTypeToString( const ComponentType : DWORD) : string
408: Function CompToCurrency( Value : Comp) : Currency
409: Function Comp.ToDouble( Value : Comp) : Double
410: function ComputeFileCRC32(const FileName : String) : Integer;
411: function ComputeSHA256(astr: string; amode: char): string //mode F:File, S:String
412: function ComputeSHA512(astr: 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:BOOL):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:Int;const
526:   FormatSettings:TFormatSettings):string;
527: function CursorToIdent(cursor: Longint; var Ident: string): Boolean;
528: function CursorToString(cursor: TCursor): string;
529: Function CustomSort( SortProc : TLVCompare; lParam : Longint ) : Boolean
530: Function CustomSort( SortProc : TTVCompare; Data : Longint; ARecurse : Boolean ) : Boolean
531: Function CycleToDeg( const Cycles : Extended ) : Extended
532: Function CycleToGrad( const Cycles : Extended ) : Extended
533: Function CycleToRad( const Cycles : Extended ) : Extended
534: Function D2H( N : Longint; A : Byte ) : string
535: Function DarkColor( const Color : TColor; const Pct : Single ) : TColor
536: Function DarkColorChannel( const Channel : Byte; const Pct : Single ) : Byte
537: Function DatalinkDir : string
538: Function DataRequest( Data : OleVariant ) : OleVariant
539: Function DataRequest( Input : OleVariant ) : OleVariant
540: Function DataToRawColumn( ACol : Integer ) : Integer
541: Function Date : TDateTime
542: Function 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 AIsgMT : 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( const 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:Int;LoadFlags:TLoadResources;MaskColor:TColor):Bool;
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 GetMIMETypeFromFileName( 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
1226: Function GETPARENTCOMPONENT : TCOMPONENT

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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: TStrings;
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 GetProgramFilesPolder : 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 ) : TIdRegularExpressionState
1306: Function GetSwapFileSize : Integer
1307: Function GetSwapFileUsage : Integer
1308: Function GetSystemLocale : TIdCharSet
1309: Function GetSystemMetrics( nIndex : Integer ) : Integer
1310: Function GetSystemPathSH(Folder: Integer): TFilename ;
1311: Function GetTableNameFromQuery( const SQL : Widestring ) : Widestring

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1312: Function GetTableNameFromSQL( const SQL : WideString ) : WideString
1313: Function GetTableNameFromSQLEX( const SQL : WideString; IdOption : IDENTIFIEROption ) : 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:PCHAR;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(stardir, amask: string): TStringlist;
1334: Function getTokenCounts : integer
1335: Function GetTotalPageFileMemory : Integer
1336: Function GetTotalPhysicalMemory : Integer
1337: Function GetTotalVirtualMemory : Integer
1338: Function GetUniqueFileName( const APath, 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 GradToDeg1( 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 GradToRad1( 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 : TTTreeNode ) : 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
1400: Function HashValue128(const ASrc: string): T4x4LongWordRecord;

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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 HTTPPEncode( const AStr : String) : string
1447: Function Hypot( const X, Y : Extended) : Extended
1448: Function IBMax( n1, n2 : Integer) : Integer
1449: Function IBMIn( 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: TSQLToken): TSQLToken;
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 IdGetDefault CharSet : 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;
1489: function ImportTest(S1: string;s2:longint; s3:Byte; s4:word; var s5:string): string;

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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 IncLimit1( 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 : TJclFileMappingView ) : 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 : WideChar; 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
1578: Function Instance : Longint

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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: TIIPv6Address): 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 ISEMPTY : 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 IsFloatAtZero( 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( DATASOURCE : 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 IsPortAvailable( ComNum : Cardinal) : Boolean');
1665: Function IsPrimeFactor( const F, N : Cardinal) : Boolean

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1666: Function IsPrimeRM( N : Cardinal ) : Boolean //rabin miller
1667: Function IsPrimeTD( N : Cardinal ) : Boolean //trial division
1668: Function IsPrivilegeEnabled( const Privilege : string ) : Boolean
1669: Function ISqrt( const I : Smallint ) : Smallint
1670: Function IsReadOnly( const Filename: string): boolean;
1671: Function IsRectEmpty( const Rect : TRect ) : Boolean
1672: function IsRectEmpty(const Rect: TRect): Boolean)
1673: Function IsRelativePrime( const X, Y : Cardinal ) : Boolean
1674: Function ISRIGHTTOLEFT : BOOLEAN
1675: function IsRightToLeft: Boolean
1676: Function IsSameDay( const AValue, ABasis : TDateTime ) : Boolean
1677: Function ISSEQUENCED : BOOLEAN
1678: Function IsSystemModule( const Module : HMODULE ) : Boolean
1679: Function IsSystemResourcesMeterPresent : Boolean
1680: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: string): boolean;
1681: Function IsToday( const AValue : TdateTime ) : Boolean
1682: function IsToday(const AValue: TDateTime): Boolean;
1683: Function IsTopDomain( const AStr : string ) : Boolean
1684: Function IsUTF8LeadByte( Lead : Char ) : Boolean
1685: Function IsUTF8String( const s : UTF8String ) : Boolean
1686: Function IsUTF8TrailByte( Lead : Char ) : Boolean
1687: Function ISVALIDCHAR( INPUTCHAR : CHAR ) : BOOLEAN
1688: Function IsValidDate( const AYear, AMonth, ADay : Word ) : Boolean
1689: Function IsValidDateDay( const AYear, ADayOfYear : Word ) : Boolean
1690: Function IsValidDateMonthWeek( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word ) : Boolean
1691: Function IsValidDateTime(const AYear,AMonth,ADay,AHour,AMinute, ASecond, AMilliSecond: Word): Boolean
1692: Function IsValidDateWeek( const AYear, AWeekOfYear, ADayOfWeek : Word ) : Boolean
1693: Function IsValidIdent( Ident : string ) : Boolean
1694: function IsValidIdent(const Ident: string; AllowDots: Boolean): Boolean)
1695: Function IsValidIP( const S : String ) : Boolean
1696: Function IsValidTime( const AHour, AMinute, ASecond, AMilliSecond : Word ) : Boolean
1697: Function IsValidISBN( const ISBN : AnsiString ) : Boolean
1698: Function IsVariantManagerSet: Boolean; //deprecated;
1699: Function IsVirtualPcGuest : Boolean;
1700: Function IsVmWareGuest : Boolean;
1701: Function IsVCLControl(Handle: HWnd): Boolean;
1702: Function IsWhiteString( const AStr : String ) : Boolean
1703: Function IsWindowResponding( Wnd : HWND; Timeout : Integer ) : Boolean
1704: Function IsWoW64: boolean;
1705: Function IsWin64: boolean;
1706: Function IsWow64String(var s: string): Boolean;
1707: Function IsWin64String(var s: string): Boolean;
1708: Function IsWindowsVista: boolean;
1709: Function isPowerof2(num: int64): boolean;
1710: Function powerOf2(exponent: integer): int64;
1711: function IsZero(const A: Extended; Epsilon: Extended): Boolean //overload;
1712: function IsZero1(const A: Double; Epsilon: Double): Boolean //overload;
1713: function IsZero2(const A: Single; Epsilon: Single): Boolean //overload;
1714: Function ItemAtPos( Pos : TPoint; IgnoreTabHeight : Boolean ) : Integer
1715: function ITEMATPOS(POS:TPOINT:EXISTING:BOOLEAN):INTEGER
1716: Function ItemRect( Index : Integer ) : TRect
1717: function ITEMRECT(INDEX:INTEGER):TRECT
1718: Function ItemWidth( Index : Integer ) : Integer
1719: Function JavahashCode(val: string): Integer;
1720: Function JosephusG(n,k: integer; var graphout: string): integer;
1721: Function JulianDateToDate( const AValue : Double ) : TDateTime
1722: Function JustName(PathName : string) : string; //in path and ext
1723: Function JvMessageBox( const Text, Caption : string; Flags : DWORD ) : Integer;
1724: Function JvMessageBox1( const Text : string; Flags : DWORD ) : Integer;
1725: Function Keepalive : Boolean
1726: Function KeysToShiftState(Keys: Word): TShiftState;
1727: Function KeyDataToShiftState(KeyData: Longint): TShiftState;
1728: Function KeyboardStateToShiftState2(const KeyboardState: TKeyboardState): TShiftState;
1729: Function KeyboardStateToShiftState: TShiftState; overload;
1730: Function Languages : TLanguages
1731: Function Last : TClass
1732: Function Last : TComponent
1733: Function Last : TObject
1734: Function LastDelimiter( Delimiters, S : string ) : Integer
1735: function LastDelimiter(const Delimiters: string; const S: string): Integer;
1736: Function LastPos( const ASubstr : string; const AStr : string ) : Integer
1737: Function Latitude2WGS84(lat: double): double;
1738: Function LCM(m,n:longint):longint;
1739: Function LCMJ( const X, Y : Cardinal ) : Cardinal
1740: Function Ldexp( const X : Extended; const P : Integer ) : Extended
1741: Function LeftStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
1742: Function LeftStr( const ATText : WideString; const ACount : Integer ) : WideString;
1743: function Length: Integer;
1744: Procedure LetfileList(FileList: TStringlist; apath: string);
1745: function lengthmp3(mp3path: string):integer;
1746: Function LineInRect( const P1, P2 : TPoint; const Rect : TRect ) : Boolean;
1747: Function LineInRect1( const P1, P2 : TFloatPoint; const Rect : TFloatRect ) : Boolean;
1748: Function LineSegmentIntersection(const L1P1 : TFloatPoint; L1P2 : TFloatPoint; const L2P1 : TFloatPoint;
L2P2 : TFloatPoint; var P : TFloatPoint) : Boolean;
1749: function LineStart(Buffer, BufPos: PChar): PChar
1750: function LineStart(Buffer, BufPos: PChar): PChar)
1751: function ListSeparator: char;
1752: function Ln(x: Extended): Extended;
1753: Function LnXP1( const X : Extended ) : Extended

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1754: function Lo(vdat: word): byte;
1755: Function LoadCursor(hInstance: HINST; lpCursorName: PChar): HCURSOR
1756: Function LoadedModulesList( const List : TStrings; ProcessID : DWORD; HandlesOnly : Boolean ) : Boolean
1757: Function LoadFileAsString( const FileName : string ) : string
1758: Function LoadFromFile( const FileName : string ) : TBitmapLoader
1759: Function LoadLibraryEx(LibName: PChar; hFile: Longint; Flags: Longint): Longint; stdcall;
1760: Function LoadPackage(const Name: string): HMODULE
1761: Function LoadResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle ) : HGLOBAL
1762: Function LoadStr( Ident : Integer ) : string
1763: Function LoadString(Instance: Longint; IDent: Integer; Buffer: PChar; Size: Integer): Integer; stdcall;
1764: Function LoadWideStr( Ident : Integer ) : WideString
1765: Function LOCATE(const KEYFIELDS: String;const KEYVALUES:VARIANT;OPTIONS: TLOCATEOPTIONS) : BOOLEAN
1766: Function LockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint ) : HRESULT
1767: Function LockServer( fLock : LongBool ) : HRESULT
1768: Function LockVolume( const Volume : string; var Handle : THandle ) : Boolean
1769: Function Log( const X : Extended ) : Extended
1770: Function Log10( const X : Extended ) : Extended
1771: Function Log2( const X : Extended ) : Extended
1772: function LogBase10(X: Float): Float;
1773: Function LogBase2(X: Float): Float;
1774: Function LogBaseN(Base, X: Float): Float;
1775: Function LogN( const Base, X : Extended ) : Extended
1776: Function LogOffOS : Boolean
1777: Function LoginDialog( const ADatabaseName : string; var AUserName, APassword : string ) : Boolean
1778: Function LoginDialogEx(const ADatabaseName:string;var AUserName,APassword:string;NameReadOnly:Bool):Bool;
1779: Function LongDateFormat: string;
1780: function LongTimeFormat: string;
1781: Function LongWordToFourChar( AC Cardinal : LongWord ) : string
1782: Function LOOKUP(const KEYFIELDS: String; const KEYVALUES: VARIANT; const RESULTFIELDS: String): VARIANT
1783: Function LookupName( const name : string ) : TInAddr
1784: Function LookupService( const service : string ) : Integer
1785: function Low: Int64;
1786: Function LowerCase( S : string ) : string
1787: Function Lowercase(s : AnyString) : AnyString;
1788: Function LRot( const Value : Byte; const Count : TBitRange ) : Byte;
1789: Function LRot1( const Value : Word; const Count : TBitRange ) : Word;
1790: Function LRot2( const Value : Integer; const Count : TBitRange ) : Integer;
1791: function MainInstance: longword
1792: function MainThreadID: longword
1793: Function Map(x, in_min, in_max, out_min, out_max: integer): integer; //arduino
1794: Function mapMax(ax, in_min, in_max, out_min, out_max: integer): integer;
1795: Function MakeCanonicalIPv4Address( const AAAddr : string ) : string
1796: Function MakeCanonicalIPv6Address( const AAAddr : string ) : string
1797: Function MakeDIB( out Bitmap : PBitmapInfo ) : Integer
1798: Function MakeDWordIntoIPv4Address( const ADWord : Cardinal ) : string
1799: function MakeLong(A, B: Word): Longint
1800: Function MakeTempFilename( const APath : String ) : string
1801: Function MakeValidFileName( const Str : string ) : string
1802: Function MakeValueMap( Enumeration : string; ToCds : Boolean ) : string
1803: function MakeWord(A, B: Byte): Word
1804: Function MakeYear4Digit( Year, Pivot : Integer ) : Integer
1805: Function MapDateTime(const DateFormatType:string; DateFormat:string;Value:string;ToCds:Boolean): string
1806: Function MapValues( Mapping : string; Value : string ) : string
1807: Function MaskDoFormatText( const EditMask : string; const Value : string; Blank : Char ) : string
1808: Function MaskGetCharType( const EditMask : string; MaskOffset : Integer ) : TMaskCharType
1809: Function MaskGetCurrentDirectives( const EditMask : string; MaskOffset : Integer ) : TMaskDirectives
1810: Function MaskGetFldSeparator( const EditMask : string ) : Integer
1811: Function MaskGetMaskBlank( const EditMask : string ) : Char
1812: Function MaskGetMaskSave( const EditMask : string ) : Boolean
1813: Function MaskIntLiteralToChar( IChar : Char ) : Char
1814: Function MaskOffsetToOffset( const EditMask : String; MaskOffset : Integer ) : Integer
1815: Function MaskOffsetToWideOffset( const EditMask : String; MaskOffset : Integer ) : Integer
1816: Function MaskString( Mask, Value : String ) : String
1817: Function Match( const sString : string ) : TniRegularExpressionMatchResult
1818: Function Match1( const sString : string; iStart : integer ) : TniRegularExpressionMatchResult
1819: Function Matches( const Filename : string ) : Boolean
1820: Function MatchesMask( const Filename, Mask : string ) : Boolean
1821: Function MatchStr( const AText : string; const AValues : array of string ) : Boolean
1822: Function MatchText( const AText : string; const AValues : array of string ) : Boolean
1823: Function Max( AValueOne, AValueTwo : Integer ) : Integer
1824: function Max(const x,y: Integer): Integer;
1825: Function Max1( const B1, B2 : Shortint ) : Shortint;
1826: Function Max2( const B1, B2 : Smallint ) : Smallint;
1827: Function Max3( const B1, B2 : Word ) : Word;
1828: function Max3(const x,y,z: Integer): Integer;
1829: Function Max4( const B1, B2 : Integer ) : Integer;
1830: Function Max5( const B1, B2 : Cardinal ) : Cardinal;
1831: Function Max6( const B1, B2 : Int64 ) : Int64;
1832: Function Max64( const AValueOne, AValueTwo : Int64 ) : Int64
1833: Function MaxFloat( const X, Y : Float ) : Float
1834: Function MaxFloatArray( const B : TDynFloatArray ) : Float
1835: Function MaxFloatArrayIndex( const B : TDynFloatArray ) : Integer
1836: function MaxIntValue(const Data: array of Integer):Integer
1837: Function MaxJ( const B1, B2 : Byte ) : Byte;
1838: function MaxPath: string;
1839: function MaxValue(const Data: array of Double): Double
1840: Function MaxCalc( const Formula : string ) : Extended //math expression parser
1841: Procedure MaxCalcF( const Formula : string ); //out to console memo2
1842: function MD5(const fileName: string): string;

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1843: Function Mean( const Data : array of Double) : Extended
1844: Function Median( const X : TDynFloatArray) : Float
1845: Function Memory : Pointer
1846: Function MemoryPos( const ASubStr : string; MemBuff : PChar; MemorySize : Integer) : Integer
1847: Function MessageBox(hndl: cardinal; text, caption: string; utype: cardinal): Integer;
1848: function MESSAGEBOX(TEXT,CAPTION:PCCHAR;FLAGS:WORD):INTEGER
1849: Function MessageDlg(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
1850: Function MessageDlg1(const
1851:   Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;DefaultButton:TMsgDlgBtn): Integer;
1851: Function MessageDlgPos(const Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint;X,
1851: Y:Integer):Integer;
1852: Function MessageDlgPos1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
1852: Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
1853: Function MessageDlgPosHelp( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
1853: Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
1854: Function MessageDlgPosHelp1( const Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons; HelpCtx :
1854: Longint; X, Y : Integer; const HelpFileName : string; DefaultButton : TMsgDlgBtn ) : Integer;
1855: Function MibToId( Mib : string ) : string
1856: Function MidStr( const AText : AnsiString; const AStart, ACount : Integer ) : AnsiString;
1857: Function MidStr( const AText : WideString; const AStart, ACount : Integer ) : WideString;
1858: Function microsecondsToCentimeters(mseconds: longint): longint; //340m/s speed of sound
1859: Function Micros(const Timer:THPTimer;const TimerRunning:Boolean):Int64//TypeS('THPTimer', 'Int64'
1860: Function MIDIOut( DeviceID : Cardinal ) : IJclMIDIOut
1861: Procedure GetMidiOutputs( const List : TStrings )
1862: Function MIDISingleNoteTuningData( Key : TMIDINote; Frequency : Single ) : TSingleNoteTuningData
1863: Function MIDINoteToStr( Note : TMIDINote ) : string
1864: Function WinMidiOut( DeviceID : Cardinal ) : IJclWinMidiOut
1865: Procedure GetMidiOutputs( const List : TStrings )
1866: Procedure MidiOutCheck( Code : MMResult )
1867: Procedure MidiInCheck( Code : MMResult )
1868: Function MillisecondOf( const AValue : TDateTime ) : Word
1869: Function MillisecondOfTheDay( const AValue : TDateTime ) : LongWord
1870: Function MillisecondOfTheHour( const AValue : TDateTime ) : LongWord
1871: Function MillisecondOfTheMinute( const AValue : TDateTime ) : LongWord
1872: Function MillisecondOfTheMonth( const AValue : TDateTime ) : LongWord
1873: Function MillisecondOfTheSecond( const AValue : TDateTime ) : Word
1874: Function MillisecondOfTheWeek( const AValue : TDateTime ) : LongWord
1875: Function MillisecondOfTheYear( const AValue : TDateTime ) : Int64
1876: Function MillisecondsBetween( const ANow, AThen : TDateTime ) : Int64
1877: Function MillisecondSpan( const ANow, AThen : TDateTime ) : Double
1878: Function milliToDateTIme( Millisecond : LongInt ) : TDateTime';
1879: Function Micros( const Timer : THPTimer; const TimerRunning : Boolean ) : Int64
1880: Function millis: int64;
1881: Function Min( AValueOne, AValueTwo : Integer ) : Integer
1882: Function Min1( const B1, B2 : Shortint ) : Shortint;
1883: Function Min2( const B1, B2 : Smallint ) : Smallint;
1884: Function Min3( const B1, B2 : Word ) : Word;
1885: Function Min4( const B1, B2 : Integer ) : Integer;
1886: Function Min5( const B1, B2 : Cardinal ) : Cardinal;
1887: Function Min6( const B1, B2 : Int64 ) : Int64;
1888: Function Min64( const AValueOne, AValueTwo : Int64 ) : Int64
1889: Function MinClientRect : TRect;
1890: Function MinClientRect1( IncludeScroller : Boolean ) : TRect;
1891: Function MinClientRect2( TabCount : Integer; IncludeScroller : Boolean ) : TRect;
1892: Function MinFloat( const X, Y : Float ) : Float
1893: Function MinFloatArray( const B : TDynFloatArray ) : Float
1894: Function MinFloatArrayIndex( const B : TDynFloatArray ) : Integer
1895: Function MinimizeName( const Filename : string; Canvas : TCanvas; MaxLen : Integer ) : string
1896: Function MinimizeName( const Filename : TFileName; Canvas : TCanvas; MaxLen : Integer ) : TFileName
1897: function MinimizeName(const Filename: String; Canvas: TCanvas;MaxLen: Integer): TFileName
1898: Function MinIntValue( const Data : array of Integer ) : Integer
1899: function MinIntValue(const Data: array of Integer):Integer)
1900: Function MinJ( const B1, B2 : Byte ) : Byte;
1901: Function MinuteOf( const AValue : TDateTime ) : Word
1902: Function MinuteOfTheDay( const AValue : TDateTime ) : Word
1903: Function MinuteOfTheHour( const AValue : TDateTime ) : Word
1904: Function MinuteOfTheMonth( const AValue : TDateTime ) : Word
1905: Function MinuteOfTheWeek( const AValue : TDateTime ) : Word
1906: Function MinuteOfTheYear( const AValue : TDateTime ) : LongWord
1907: Function MinutesBetween( const ANow, AThen : TDateTime ) : Int64
1908: Function MinuteSpan( const ANow, AThen : TDateTime ) : Double
1909: Function MinValue( const Data : array of Double ) : Double
1910: function MinValue(const Data: array of Double): Double)
1911: Function MixerLeftRightToArray( Left, Right : Cardinal ) : TDynCardinalArray
1912: Function MMCheck( const MciError : MCIERROr; const Msg : string ) : MCIERROr
1913: Function ModFloat( const X, Y : Float ) : Float
1914: Function ModifiedJulianDateToDateTIme( const AValue : Double ) : TDateTime
1915: Function Modify( const Key : string; Value : Integer ) : Boolean
1916: Function ModuleCacheID : Cardinal
1917: Function ModuleFromAddr( const Addr : Pointer ) : HMODULE
1918: Function MonitorFromPoint( const Point : TPoint; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1919: Function MonitorFromRect( const Rect : TRect; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1920: Function MonitorFromWindow( const Handle : THandle; MonitorDefault : TMonitorDefaultTo ) : TMonitor
1921: Function MonthOf( const AValue : TDateTime ) : Word
1922: Function MonthOfTheYear( const AValue : TDateTime ) : Word
1923: Function MonthsBetween( const ANow, AThen : TDateTime ) : Integer
1924: Function MonthSpan( const ANow, AThen : TDateTime ) : Double
1925: Function MonthStr( DateTIme : TDateTime ) : string
1926: Function MouseCoord( X, Y : Integer ) : TGridCoord

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1927: Function MOVEBY( DISTANCE : INTEGER ) : INTEGER
1928: Function MoveFile( Source, Dest : string; Flags : FILEOP_FLAGS ) : Boolean
1929: Function MoveNext : Boolean
1930: Function MSecsToTimeStamp( MSecs : Comp ) : TTimeStamp
1931: function MSecsToTimeStamp(MSecs: Comp): TTimeStamp
1932: Function Name : string
1933: Function NetPresentValue(const Rate:Extended;const CashFlows:array of
Double;PaymentTime:TPaymentTime):Extended
1934: function NetworkVolume(DriveChar: Char): string
1935: Function NEWBOTOMLINE : INTEGER
1936: Function NewCompareNode( Field : TField; Operator : TCANOperator; const Value : Variant ) : PExprNode
1937: Function NEWITEM( const ACAPTION : STRING; ASHORTCUT : TSHORCUT; ACHECKED, AENABLED : BOOLEAN; AONCLICK : TNTOFIEVENT; HCTX : WORD; const ANAME : String ) : TMenuItem
1938: Function NEWLINE : TMenuItem
1939: Function NEWMENU( OWNER : TCOMPONENT; const ANAME : STRING; ITEMS : array of TMenuItem ) : TMAINMENU
1940: Function NewNode(Kind: TExprNodeKind; Operator:TCANOperator; const Data:Variant; Left,
Right:PExprNode):PExprNode
1941: Function NEWPOPPUPMENU(OWNER:TCOMPONENT;const ANAME:String; ALIGNMENT:TPOPUPALIGNMENT;AUTOPOPUP:BOOLEAN;
const ITEMS : array of TCMENUITEM) : TPOPUPMENU
1942: Function NewState( eType : TniRegularExpressionStateType ) : TniRegularExpressionState
1943: Function NEWSUBMENU(const ACAPT:String;HCTX:WORD;const ANAME:String;ITEMS:array of
TMenuItem;AENABLED:BOOL): TMenuItem
1944: Function NEWTOPLINE : INTEGER
1945: Function Next : TIAuthWhatsNext
1946: Function NextCharIndex( S : String; Index : Integer ) : Integer
1947: Function NextRecordSet : TCustomSQLDataSet
1948: Function NextRecordset( var RecordsAffected : Integer ) : _Recordset
1949: Function NextSQLToken1( var p : WideChar; out Token : WideString; CurSection : TSQLOken ) : TSQLOken;
1950: Function NextToken : Char
1951: Function nextToken : WideString
1952: function NextToken:Char
1953: Function Norm( const Data : array of Double ) : Extended
1954: Function NormalizeAngle( const Angle : Extended ) : Extended
1955: Function NormalizeBcd( const InBcd : TBcd; var OutBcd : TBcd; const Prec, Scale : Word ) : Boolean
1956: Function NormalizeRect( const Rect : TRect ) : TRect
1957: function NormalizeRect(const Rect: TRect): TRect;
1958: Function Now : TDateTime
1959: function Now2: tDateTime
1960: Function NumProcessThreads : integer
1961: Function NumThreadCount : integer
1962: Function NthDayOfWeek( const AValue : TDateTime ) : Word
1963: Function NtProductType : TNTProductType
1964: Function NtProductTypeString : string
1965: function Null: Variant;
1966: Function NullPoint : TPoint
1967: Function NullRect : TRect
1968: Function Null2Blank(aString:String):String;
1969: Function NumberOfPeriods( const Rate : Extended; Payment : Extended; const PresentValue, FutureValue : Extended;
PaymentTime : TPaymentTime ) : Extended
1970: Function NumIP : integer
1971: function Odd(x: Longint): boolean;
1972: Function OffsetFromUTC : TDateTime
1973: Function OffsetPoint( const P, Offset : TPoint ) : TPoint
1974: Function OffsetRect( var Rect : TRect; DX : Integer; DY : Integer ) : Boolean
1975: function OffsetRect(var Rect: TRect; DX:Integer; DY:Integer): Boolean
1976: Function OffsetToMaskOffset( const EditMask : string; Offset : Integer ) : Integer
1977: Function OkToChangeFieldAlignment( AField : TField; Alignment : TAlignment ) : Boolean
1978: Function OldBCDToCurr( const BCD : TBcd; var Curr : Currency ) : Boolean
1979: Function OldCurrToBCD(const Curr:Currency; var BCD:TBcd; Precision:Integer;Decimals:Integer): Boolean
1980: function OpenBit:Integer
1981: Function OpenDatabase : TDatabase
1982: Function OpenDatabase( const DatabaseName : string ) : TDatabase
1983: Procedure OpenDir(adir: string);
1984: Function OpenGLColorToWinColor( const Red, Green, Blue : Float ) : TColor
1985: Function OpenObject( Value : PChar ) : Boolean
1986: Function OpenObject1( Value : string ) : Boolean;
1987: Function OpenSession( const SessionName : string ) : TSession
1988: Function OpenVolume( const Drive : Char ) : THandle
1989: function OrdFourByteToCardinal(AByte1, AByte2, AByte3, AByte4 : Byte) : Cardinal
1990: Function OrdFourByteToLongWord( AByte1, AByte2, AByte3, AByte4 : Byte ) : LongWord
1991: Function OrdToBinary( const Value : Byte) : string;
1992: Function OrdToBinary1( const Value : Shortint) : string;
1993: Function OrdToBinary2( const Value : Smallint) : string;
1994: Function OrdToBinary3( const Value : Word) : string;
1995: Function OrdToBinary4( const Value : Integer) : string;
1996: Function OrdToBinary5( const Value : Cardinal) : string;
1997: Function OrdToBinary6( const Value : Int64) : string;
1998: Function OSCheck( RetVal : Boolean) : Boolean
1999: Function OSFileTypeToString( const OSFileType : DWORD; const OSFileSubType : DWORD ) : string
2000: Function OSIdentToString( const OSIdent : DWORD ) : string
2001: Function Output: Text
2002: Function Overlay( ImageIndex : Integer; Overlay : TOverlay ) : Boolean
2003: Function Owner : TCustomListView
2004: function Owner : TPersistent
2005: Function PadInputLiterals( const EditMask : String; const Value : string; Blank : Char ) : string
2006: Function PadL( pStr : String; pLth : integer) : String
2007: Function Padl(s : AnyString;I : longInt) : AnyString;
2008: Function PadLCh( pStr : String; pLth : integer; pChr : char ) : String
2009: Function PadR( pStr : String; pLth : integer) : String

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2010: Function Padr(s : AnyString;I : longInt) : AnyString;
2011: Function PadRCh( pStr : String; pLth : integer; pChr : char) : String
2012: Function PadString( const AString : String; const ALen : Integer; const AChar : Char) : String
2013: Function Padz(s : AnyString;I : longInt) : AnyString;
2014: Function PaethPredictor( a, b, c : Byte) : Byte
2015: Function PARAMBYNAME( const VALUE : String) : TPARAM
2016: Function ParamByName( const Value : WideString) : TParameter
2017: Function ParamCount: Integer
2018: Function ParamsEncode( const ASrc : string) : string
2019: function ParamStr(Index: Integer): string
2020: Function ParseDate( const DateStr : string) : TDateTime
2021: Function PARSESQL( SQL : String; DCREATE : BOOLEAN) : String
2022: Function ParseSQL( SQL : WideString; DoCreate : Boolean) : WideString
2023: Function PathAddExtension( const Path, Extension : string) : string
2024: Function PathAddSeparator( const Path : string) : string
2025: Function PathAppend( const Path, Append : string) : string
2026: Function PathBuildRoot( const Drive : Byte) : string
2027: Function PathCanonicalize( const Path : string) : string
2028: Function PathCommonPrefix( const Path1, Path2 : string) : Integer
2029: Function PathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string;
2030: Function PathCompactPath1(const Canv:TCanvas;const Path:string;const Width:Int;CmpFmt:TCompactPath):string;
2031: Function PathEncode( const ASrc : string) : string
2032: Function PathExtractFileDirFixed( const S : AnsiString) : AnsiString
2033: Function PathExtractFileNameNoExt( const Path : string) : string
2034: Function PathExtractPathDepth( const Path : string; Depth : Integer) : string
2035: Function PathGetDepth( const Path : string) : Integer
2036: Function PathGetLongName( const Path : string) : string
2037: Function PathGetLongName2( Path : string) : string
2038: Function PathGetShortName( const Path : string) : string
2039: Function PathIsAbsolute( const Path : string) : Boolean
2040: Function PathIsChild( const Path, Base : AnsiString) : Boolean
2041: Function PathIsDiskDevice( const Path : string) : Boolean
2042: Function PathIsUNC( const Path : string) : Boolean
2043: Function PathRemoveExtension( const Path : string) : string
2044: Function PathRemoveSeparator( const Path : string) : string
2045: Function Payment(Rate:Extended;NPeriods:Int;const PresentVal,
FutureVal:Extended;PaymentTime:TPaymentTime):Extended
2046: Function Peek : Pointer
2047: Function Peek : TObject
2048: function PERFORM(MSG:CARDINAL;WPARAM:LPARAM;LONGINT):LONGINT
2049: Function PeriodPayment(const Rate:Extended;Period,NPeriods:Integer; const PresentValue, FutureValue :
Extended; PaymentTime : TPaymentTime) : Extended
2050: function Permutation(npr, k: integer): extended;
2051: function PermutationInt(npr, k: integer): Int64;
2052: Function PermutationJ( N, R : Cardinal) : Float
2053: Function Pi : Extended;
2054: Function PiE : Extended;
2055: Function PixelsToDialogsX( const Pixels : Word) : Word
2056: Function PixelsToDialogsY( const Pixels : Word) : Word
2057: Function PlaySound(s: pchar; flag, syncflag: integer): boolean;
2058: Function Point( X, Y : Integer) : TPoint
2059: function Point(X, Y: Integer): TPoint
2060: Function PointAssign( const X, Y : Integer) : TPoint
2061: Function PointDist( const P1, P2 : TPoint) : Double;
2062: function PointDist(const P1,P2: TFloatPoint): Double;
2063: Function PointDist1( const P1, P2 : TFloatPoint) : Double;
2064: function PointDist2(const P1,P2: TPoint): Double;
2065: Function PointEqual( const P1, P2 : TPoint) : Boolean
2066: Function PointIsNull( const P : TPoint) : Boolean
2067: Function PointToLineSegmentDist( const Point, LineP1, LineP2 : TFloatPoint) : Double
2068: Function Poly( const X : Extended; const Coefficients : array of Double) : Extended
2069: Function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
2070: Function IsTCPPortOpen(dwPort : Word; ipAddressStr: String): boolean;
2071: Function Pop : Pointer
2072: Function Pop : TObject
2073: Function PopnStdDev( const Data : array of Double) : Extended
2074: Function PopnVariance( const Data : array of Double) : Extended
2075: Function PopulationVariance( const X : TDynFloatArray) : Float
2076: function Pos(SubStr, S: AnyString): Longint;
2077: Function PosEqual( const Rect : TRect) : Boolean
2078: Function PosEx( const SubStr, S : string; Offset : Integer) : Integer
2079: Function PosInSmallintArray( const ASearchInt : SmallInt; AArray : array of SmallInt) : Integer
2080: Function PosInStrArray(const SearchStr:string;Contents:array of string;const CaseSensitive:Boolean):Integer
2081: Function Post1( AURL : string; const ASource : TStrings) : string;
2082: Function Post2( AURL : string; const ASource : TStream) : string;
2083: Function Post3( AURL : string; const ASource : TIIdMultiPartFormDataStream) : string;
2084: Function PostData( const UserData : WideString; const CheckSum : DWORD) : Boolean
2085: Function PostData( const UserData : WideString; const CheckSum : integer): Boolean
2086: function PostMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2087: Function Power( const Base, Exponent : Extended) : Extended
2088: Function PowerBig(aval, n:integer): string;
2089: Function PowerIntJ( const X : Float; N : Integer) : Float;
2090: Function PowerJ( const Base, Exponent : Float) : Float;
2091: Function PowerOffOS : Boolean
2092: Function PreformatDateString( Ps : string) : string
2093: Function PresentValue(const Rate:Extend;NPeriods:Int;const Payment,
FutureVal:Extend;PaymentTime:TPaymentTime):Extended
2094: Function PrimeFactors( N : Cardinal) : TDynCardinalArray
2095: Function Printer : TPrinter

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2096: Function ProcessPath2( const ABasePath:String; const APath: String; const APathDelim:string): string
2097: Function ProcessResponse : TIdHTTPWhatsNext
2098: Function ProduceContent : string
2099: Function ProduceContentFromStream( Stream : TStream) : string
2100: Function ProduceContentFromString( const S : string) : string
2101: Function ProgIDToClassID(const ProgID: string): TGUID;
2102: Function PromptDataLinkFile( ParentHandle : THandle; InitialFile : WideString) : WideString
2103: Function PromptDataSource( ParentHandle : THandle; InitialString : WideString) : WideString
2104: Function PromptForFileName( var AFileName : string; const AFiler : string; const ADefaultExt : string;
  const ATitle : string; const AInitialDir : string; SaveDialog: Boolean) : Boolean
2105: function PromptForFileName(var AFileName: string; const AFiler: string; const ADefaultExt: string;const
  ATitle: string; const AInitialDir: string; SaveDialog: Boolean): Boolean
2106: Function PSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FileName,Output:String):Boolean
2107: Function PtInRect( const Rect : TRect; const P: TPoint) : Boolean
2108: function PtInRect(const Rect: TRect; const P: TPoint): Boolean
2109: Function Push( AItem : Pointer) : Pointer
2110: Function Push( AObject : TObject) : TObject
2111: Function Put1( AURL : string; const ASource : TStream) : string;
2112: Function Pythagoras( const X, Y : Extended) : Extended
2113: Function queryDLLInterface( var queryList : TStringList) : TStringList
2114: Function queryDLLInterfaceTwo( var queryList : TStringList) : TStringList
2115: Function QueryInterface(const IID: TGUID; out Obj): HResult, CdStdCall
2116: Function queryPerformanceCounter2(mse: int64): int64;
2117: //Function QueryPerformanceCounter(var lpPerformanceCount: Int64): LongBool; stdcall;
2118: //Function QueryPerformanceFrequency(mse: int64): boolean;
2119: Function QueryPerformanceCounter(var lcount: Int64): Boolean; stdcall;
2120: Function QueryPerformanceFrequency(var lfreq: int64): boolean; stdcall;
2121: Procedure QueryPerformanceCounter1(var aC: Int64);
2122: Function QueryPerformanceFrequency1(var freq: int64): boolean;
2123: Function Quote( const ACommand : String) : SmallInt
2124: Function QuotedStr( S : string) : string
2125: Function RadToCycle( const Radians : Extended) : Extended
2126: Function RadToDeg( const Radians : Extended) : Extended
2127: Function RadToDeg( const Value : Extended) : Extended;
2128: Function RadToDeg1( const Value : Double) : Double;
2129: Function RadToDeg2( const Value : Single) : Single;
2130: Function RadToGrad( const Radians : Extended) : Extended
2131: Function RadToGrad( const Value : Extended) : Extended;
2132: Function RadToGrad1( const Value : Double) : Double;
2133: Function RadToGrad2( const Value : Single) : Single;
2134: Function RandG( Mean, StdDev : Extended) : Extended
2135: function Random(const ARange: Integer): Integer;
2136: function random2(a: integer): double
2137: function RandomE: Extended;
2138: function RandomF: Extended;
2139: Function RandomFrom( const AValues : array of string) : string;
2140: Function RandomRange( const AFrom, ATo : Integer) : Integer
2141: function randSeed: longint
2142: Function RawToDataColumn( ACol : Integer) : Integer
2143: Function Read : Char
2144: Function Read( pv : Pointer; cb : Longint; pcbRead : PLongint) : HResult
2145: function Read(Buffer:String;Count:LongInt):LongInt
2146: Function ReadBinaryStream( const Section, Name : string; Value : TStream) : Integer
2147: Function ReadBool( const Section, Ident : string; Default : Boolean) : Boolean
2148: Function ReadCardinal( const AConvert : boolean) : Cardinal
2149: Function ReadChar : Char
2150: Function ReadClient( var Buffer, Count : Integer) : Integer
2151: Function ReadDate( const Section, Name : string; Default : TDateTime) : TDateTime
2152: Function ReadDateTime( const Section, Name : string; Default : TDateTime) : TDateTime
2153: Function ReadFloat( const Section, Name : string; Default : Double) : Double
2154: Function ReadFromStack(const ARaiseExceptfDisconnected:Bool;ATimeout:Int;const ARaiseExceptionTimeout:
  Bool):Int
2155: Function ReadInteger( const AConvert : boolean) : Integer
2156: Function ReadInteger( const Section, Ident : string; Default : Longint) : Longint
2157: Function ReadLn : string
2158: Function ReadLn( ATerminator : string; const ATimeout : Integer; AMaxLength : Integer) : string
2159: function Readln(question: string): string
2160: Function ReadLnWait( AFailCount : Integer) : string
2161: Function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
2162: Function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
2163: Function ReadSmallInt( const AConvert : boolean) : SmallInt
2164: Function ReadString( const ABytes : Integer) : string
2165: Function ReadString( const Section, Ident, Default : string) : string
2166: Function ReadString( Count : Integer) : string
2167: Function ReadTime( const Section, Name : string; Default : TDateTime) : TDateTime
2168: Function ReadTimeStampCounter : Int64
2169: Function RebootOS : Boolean
2170: Function Receive( ATimeOut : Integer) : TReplyStatus
2171: Function ReceiveBuf( var Buf, Count : Integer) : Integer
2172: Function ReceiveLength : Integer
2173: Function ReceiveText : string
2174: Function ReceiveSerialData(var Data: TByteArray; DataSize: cardinal): cardinal
2175: Function ReceiveSerialText: string
2176: Function RecodeDate( const AValue : TDateTime; const AYear, AMonth, ADay : Word) : TDateTime
2177: Function RecodeDateTime(const AValue:TDateTime;const AYear,AMonth,ADay,AHr,AMin,ASec,
  AMilliSec:Word):TDateTime
2178: Function RecodeDay( const AValue : TDateTime; const ADay : Word) : TDateTime
2179: Function RecodeHour( const AValue : TDateTime; const AHour : Word) : TDateTime
2180: Function RecodeMillisecond( const AValue : TDateTime; const AMilliSecond : Word) : TDateTime

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2181: Function RecodeMinute( const AValue : TDateTime; const AMinute : Word ) : TDateTime
2182: Function RecodeMonth( const AValue : TDateTime; const AMonth : Word ) : TDateTime
2183: Function RecodeSecond( const AValue : TDateTime; const ASecond : Word ) : TDateTime
2184: Function RecodeTime( const AValue: TDateTime;const AHour,AMinute,ASecond,AMilliSecond:Word):TDateTime
2185: Function RecodeYear( const AValue : TDateTime; const AYear : Word ) : TDateTime
2186: Function Reconcile( const Results : OleVariant ) : Boolean
2187: Function Rect( Left, Top, Right, Bottom : Integer ) : TRect
2188: function Rect( ALeft: Integer; ATop: Integer; ARight: Integer; ABottom: Integer): TRect
2189: Function Rect2( const ATopLeft, ABottomRight : TPoint ) : TRect;
2190: Function RectAssign( const Left, Top, Right, Bottom : Integer ) : TRect
2191: Function RectAssignPoints( const TopLeft, BottomRight : TPoint ) : TRect
2192: Function RectBounds( const Left, Top, Width, Height : Integer ) : TRect
2193: Function RectCenter( const R : TRect ) : TPoint
2194: Function RectEqual( const R1, R2 : TRect ) : Boolean
2195: Function RectHeight( const R : TRect ) : Integer
2196: Function RectIncludesPoint( const R : TRect; const Pt : TPoint ) : Boolean
2197: Function RectIncludesRect( const R1, R2 : TRect ) : Boolean
2198: Function RectIntersection( const R1, R2 : TRect ) : TRect
2199: Function RectIntersectRect( const R1, R2 : TRect ) : Boolean
2200: Function RectIsEmpty( const R : TRect ) : Boolean
2201: Function RectIsNull( const R : TRect ) : Boolean
2202: Function RectIsSquare( const R : TRect ) : Boolean
2203: Function RectIsValid( const R : TRect ) : Boolean
2204: Function RectsAreValid( R : array of TRect ) : Boolean
2205: Function RectUnion( const R1, R2 : TRect ) : TRect
2206: Function RectWidth( const R : TRect ) : Integer
2207: Function RedComponent( const Color32 : TColor32 ) : Integer
2208: Function Refresh : Boolean
2209: Function RefStringListCopy(aRefArray:TStringlist):TStringList;
2210: Function RegisterConversionFamily( const ADescription : string ) : TConvFamily
2211: Function RegisterConversionType( AConvTypeInfo : TConvTypeInfo; out AType : TConvType ) : Boolean;
2212: Function RegisterConversionType(const AFam:TConvFamil;const ADescr:string;const AFact:Double):TConvType
2213: Function RegistryRead(keyHandle: Longint; keyPath, myField: String): string;
2214: Function ReleaseDC(hdwd: HWND; hdc: HDC): integer;
2215: Function ReleaseHandle : HBITMAP
2216: Function ReleaseHandle : HENHMETAFILE
2217: Function ReleaseHandle : HICON
2218: Function ReleasePalette : HPALETTE
2219: Function RemainderFloat( const X, Y : Float ) : Float
2220: Function Remove( AClass : TClass ) : Integer
2221: Function Remove( AComponent : TComponent ) : Integer
2222: Function Remove( AItem : Integer ) : Integer
2223: Function Remove( AItem : Pointer ) : Pointer
2224: Function Remove( AItem : TObject ) : TObject
2225: Function Remove( AObject : TObject ) : Integer
2226: Function RemoveBackslash( const PathName : string ) : string
2227: Function RemoveDF( aString : String ) : String //removes thousand separator
2228: Function RemoveDir( Dir : string ) : Boolean
2229: function RemoveDir(const Dir: string): Boolean
2230: Function RemoveDirectory(PathName: PChar): WordBool; stdcall;
2231: Function RemoveFileExt( const FileName : string ) : string
2232: Function RemoveHeaderEntry( AHeader, AEntry : string ) : string
2233: Function RenameFile( OldName, NewName : string ) : Boolean
2234: function RenameFile(const OldName: string; const NewName: string): Boolean
2235: Function ReplaceStr( const AText, AFromText, AToText : string ) : string
2236: Function ReplaceText( const AText, AFromText, AToText : string ) : string
2237: Function Replicate(c : char;I : longInt) : String;
2238: Function Request : TWebRequest
2239: Function ResemblesText( const AText, AOther : string ) : Boolean
2240: Function Reset : Boolean
2241: function Reset2(mypath: string):string;
2242: Function ResInstLoad(Instance:THandle;ResType:TResType; const Name:string;MaskColor: TColor): Boolean
2243: Function ResourceLoad( ResType : TResType; const Name : string; MaskColor : TColor ) : Boolean
2244: Function Response : TWebResponse
2245: Function ResumeSupported : Boolean
2246: Function RETHINKHOTKEYS : BOOLEAN
2247: Function RETHINKLINES : BOOLEAN
2248: Function Retrieve( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2249: Function RetrieveCurrentDir : string
2250: Function RetrieveDeltas( const cdsArray : array of TClientDataset ) : Variant
2251: Function RetrieveHeader( const MsgNum : Integer; AMsg : TIIdMessage ) : Boolean
2252: Function RetrieveMailBoxSize : integer
2253: Function RetrieveMsgSize( const MsgNum : Integer ) : Integer
2254: Function RetrieveProviders( const cdsArray : array of TClientDataset ) : Variant
2255: Function RetrieveRaw( const MsgNum : Integer; const Dest : TStrings ) : boolean
2256: Function ReturnMIMETYPE( var MediaType, EncType : String ) : Boolean
2257: Function ReverseBits( Value : Byte ) : Byte;
2258: Function ReverseBits1( Value : Shortint ) : Shortint;
2259: Function ReverseBits2( Value : Smallint ) : Smallint;
2260: Function ReverseBits3( Value : Word ) : Word;
2261: Function ReverseBits4( Value : Cardinal ) : Cardinal;
2262: Function ReverseBits4( Value : Integer ) : Integer;
2263: Function ReverseBits5( Value : Int64 ) : Int64;
2264: Function ReverseBytes( Value : Word ) : Word;
2265: Function ReverseBytes1( Value : Smallint ) : Smallint;
2266: Function ReverseBytes2( Value : Integer ) : Integer;
2267: Function ReverseBytes3( Value : Cardinal ) : Cardinal;
2268: Function ReverseBytes4( Value : Int64 ) : Int64;
2269: Function ReverseString( const AText : string ) : string

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2270: Function ReverseDNSLookup( const IPAddrs:String; DNSServer:String; Timeout,Retries:Int; var
2271:   HostName:String ):Bool;
2272: Function Revert : HRESULT;
2273: Function RGB(R,G,B: Byte): TColor;
2274: Function RGB2BGR( const Color : TColor ) : TColor;
2275: Function RGB2TColor( R, G, B : Byte ) : TColor;
2276: Function RGBToWebColorName( RGB : Integer ) : string;
2277: Function RgbToHtml( Value : TColor ) : string;
2278: Function HtmlToRgb(const Value: string): TColor;
2279: Function RightStr( const AStr : String; Len : Integer ) : String;
2280: Function RightStr( const AText : AnsiString; const ACount : Integer ) : AnsiString;
2281: Function RightStr( const AText : WideString; const ACount : Integer ) : WideString;
2282: Function ROL( Aval : LongWord; AShift : Byte ) : LongWord;
2283: Function ROR( Aval : LongWord; AShift : Byte ) : LongWord;
2284: Function RotatePoint( Point : TFloatPoint; const Center : TFloatPoint; const Angle : Float ) : TFloatPoint;
2285: function RotatePoint(Point: TFloatPoint; const Center: TFloatPoint; const Angle: Double): TFloatPoint;
2286: Function Round(e : Extended) : Longint;
2287: Function Round64(e: extended): Int64;
2288: Function RoundAt( const Value : string; Position : SmallInt ) : string;
2289: type TRoundToRange = -37..37; TRoundToEXRangeExtended = -20..20;
2290: Function RoundTo( const AValue: Extended; const ADigit: TRoundToEXRangeExtended): Extended; '';
2291: Function SimpleRoundTo(const AValue: Extended; const ADigit: TRoundToRange): Extended; '';
2292: Function RoundFrequency( const Frequency : Integer ) : Integer;
2293: Function RoundInt( Value : Integer; StepSize : Integer ) : Integer;
2294: Function RoundPoint( const X, Y : Double ) : TPoint;
2295: Function RoundRect( const ALeft, ATop, ARight, ABottom : Double ) : TRect;
2296: Function RowCount : Integer;
2297: Function RowRequest( const Row : OleVariant; RequestType : Integer; var OwnerData : OleVariant): OleVariant;
2298: Function RowRequest( Row : OleVariant; Options : TFetchOptions ) : OleVariant;
2299: Function RPos( const ASub, AIn : String; AStart : Integer ) : Integer;
2300: Function RRot( const Value : Byte; const Count : TBitRange ) : Byte;
2301: Function RRot1( const Value : Word; const Count : TBitRange ) : Word;
2302: Function RRot2( const Value : Integer; const Count : TBitRange ) : Integer;
2303: Function RunDLL32( const ModuleNa, FuncName, Cmdline:string; WaitForCompletion:Bool; CmdShow:Integer ):Boolean;
2304: Function RunningProcessesList( const List : TStrings; FullPath : Boolean ) : Boolean;
2305: Function S_AddBackSlash( const ADirName : string ) : string;
2306: Function S_AllTrim( const cStr : string ) : string;
2307: Function S_AtRepl( const cAT, cStr, cRepl : string ) : string;
2308: Function S_Cut( const cStr : string; const iLen : integer ) : string;
2309: Function S_DecryptCRC32( const crc : string; StartKey, MultKey, AddKey : integer ) : integer;
2310: Function S_DirExists( const ADir : string ) : Boolean;
2311: Function S_Empty( const cStr : string ) : boolean;
2312: Function S_EncryptCRC32( const crc : LongWORD; StartKey, MultKey, AddKey : integer ) : string;
2313: Function S_LargeFontsActive : Boolean;
2314: Function S_LimitDigits( AValue : Extended; ANumDigits : Integer ) : Extended;
2315: Function S_LTrim( const cStr : string ) : string;
2316: Function S_ReadNextTextLineFromStream( stream : TStream ) : string;
2317: Function S_RepeatChar( const iLen : integer; const AChar : Char ) : String;
2318: Function S_ReplFirst( const cAT, cStr, cRepl : string ) : string;
2319: Function S_RoundDecimal( AValue : Extended; APPlaces : Integer ) : Extended;
2320: Function S_RTrim( const cStr : string ) : string;
2321: Function S_RTrimCopy( const cStr : string; iPos, iLen : integer ) : string;
2322: //Type TS_ShellExecuteCmd = (seCmdOpen, seCmdPrint, seCmdExplore);
2323: Function S_ShellExecute( aFilename : string; aParameters : string; aCommand : TS_ShellExecuteCmd ) : string;
2324: Function S_Space( const iLen : integer ) : String;
2325: Function S_StrBlanks( const cStr : string; const iLen : integer ) : string;
2326: Function S_StrBlanksCuttooLong( const cStr : string; const iLen : integer ) : string;
2327: Function S_StrCRC32( const Text : string ) : LongWORD;
2328: Function S_StrDecrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string;
2329: Function S_StrEncrypt96( const InString : string; StartKey, MultKey, AddKey : Integer ) : string;
2330: Function S_StringToUTF_8( const AString : string ) : string;
2331: Function S_StrLBlanks( const cStr : string; const iLen : integer ) : string;
2332: function S_StrToReal( const cStr: string; var R: Double): Boolean;
2333: Function S_TokenEnd( cBuffer : PChar; lEmptyToken : boolean ) : boolean;
2334: Function S_TokenNext( cBuffer : PChar; lEmptyToken : boolean ) : string;
2335: Function S_UTF_8ToString( const AString : string ) : string;
2336: Function S_WBox( const AText : string ) : integer;
2337: Function SameDate( const A, B : TDateTime ) : Boolean;
2338: function SameDate( const A, B: TDateTime): Boolean;
2339: Function SameDateTime( const A, B : TDateTime ) : Boolean;
2340: function SameDateTime( const A, B: TDateTime): Boolean;
2341: Function SameFileName( S1, S2 : string ) : Boolean;
2342: Function SameText( S1, S2 : string ) : Boolean;
2343: function SameText( const S1: string; const S2: string): Boolean;
2344: Function SameTime( const A, B : TDateTime ) : Boolean;
2345: function SameTime( const A, B: TDateTime): Boolean;
2346: function SameValue( const A, B: Extended; Epsilon: Extended): Boolean //overload;
2347: function SameValue1( const A, B: Double; Epsilon: Double): Boolean //overload;
2348: function SameValue2( const A, B: Single; Epsilon: Single): Boolean //overload;
2349: Function SampleVariance( const X : TDynFloatArray ) : Float;
2350: Function Sar( const Value : Shortint; const Count : TBitRange ) : Shortint;
2351: Function Sar1( const Value : Smallint; const Count : TBitRange ) : Smallint;
2352: Function Sar2( const Value : Integer; const Count : TBitRange ) : Integer;
2353: Function SaveAsExcelFile( const AfileName : TFileName ) : Boolean;
2354: Function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
2355: Function SaveAsExcel(aGrid: TStringGrid; aSheetName, afileName: string; openexcel: boolean): Boolean;
2356: Function ScanF( const aformat: String; const args: array of const): string;
2357: Function SCREENTOCLIENT(POINT:TPOINT):TPOINT

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2358: Function SearchBuf(Buf:PChar; BufLen:Integer; SelStart,SelLength:Integer;SearchString:String;Options: TStringSearchOptions):PChar
2359: Function SearchBuf2(Buf: String;SelStart,SelLength:Integer; SearchString: String;Options:TStringSearchOptions):Integer;
2360: function SearchRecattr: integer;
2361: function SearchRecExcludeAttr: integer;
2362: Function SearchRecFileSize64( const SearchRec : TSearchRec ) : Int64
2363: function SearchRecname: string;
2364: function SearchRecsize: integer;
2365: function SearchRecTime: integer;
2366: Function Sec( const X : Extended ) : Extended
2367: Function Secant( const X : Extended ) : Extended
2368: Function SecH( const X : Extended ) : Extended
2369: Function SecondOf( const AValue : TDateTime ) : Word
2370: Function SecondOfTheDay( const AValue : TDateTime ) : LongWord
2371: Function SecondOfTheHour( const AValue : TDateTime ) : Word
2372: Function SecondOfTheMinute( const AValue : TDateTime ) : Word
2373: Function SecondOfTheMonth( const AValue : TDateTime ) : LongWord
2374: Function SecondOfTheWeek( const AValue : TDateTime ) : LongWord
2375: Function SecondOfTheYear( const AValue : TDateTime ) : LongWord
2376: Function SecondsBetween( const ANow, AThen : TDateTime ) : Int64
2377: Function SecondSpan( const ANow, AThen : TDateTime ) : Double
2378: Function SectionExists( const Section : string ) : Boolean
2379: Function Seek( const KeyValues: Variant; SeekOption : TSeekOption ) : Boolean
2380: Function Seek( dlibMove : Longint; dwOrigin : Longint; out libNewPosition : Largeint ) : HResult
2381: function Seek(Offset:LongInt;Origin:Word):LongInt
2382: Function SelectDirectory( var Directory : string; Options : TSelectDirOpts; HelpCtx:Longint): Boolean;
2383: Function SelectDirectory( const Caption : string; const Root : WideString; var Directory : string; Options : TSelectDirExtOpts; Parent : TWinControl ) : Boolean;
2384: Function SelectImage( var AFileName : string; const Extensions, Filter : string ) : Boolean
2385: function SendAppMessage(Msg: Cardinal; WParam, LParam: Longint): Longint
2386: Function SendBuf( var Buf, Count : Integer ) : Integer
2387: Function SendCmd( const AOut : string; const AResponse : SmallInt ) : SmallInt;
2388: Function SendCmd( const AOut : string; const AResponse : array of SmallInt ) : SmallInt;
2389: Function SendKey( AppName : string; Key : Char ) : Boolean
2390: function SendMessage(hWnd: HWND; Msg: longword; wParam: longint; lParam: longint): Boolean;
2391: Function SendStream( AStream : TStream ) : Boolean
2392: Function SendStreamThenDrop( AStream : TStream ) : Boolean
2393: Function SendText( const S : string ) : Integer
2394: Function SendSerialData(Data: TByteArray; DataSize: cardinal): cardinal
2395: Function SendSerialText(Data: String): cardinal
2396: Function Sent : Boolean
2397: Function ServicesFilePath: string
2398: Function SetAlpha( const Color32 : TColor32; NewAlpha : Integer ) : TColor32
2399: Function SetBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2400: Function SetBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2401: Function SetBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2402: Function SetBit3( const Value : Word; const Bit : TBitRange ) : Word;
2403: Function SetBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2404: Function SetBit4( const Value : Integer; const Bit : TBitRange ) : Integer;
2405: Function SetBit5( const Value : Int64; const Bit : TBitRange ) : Int64;
2406: Function SetClipboard( NewClipboard : TClipboard ) : TClipboard
2407: Function SetColorBlue( const Color : TColor; const Blue : Byte ) : TColor
2408: Function SetColorFlag( const Color : TColor; const Flag : Byte ) : TColor
2409: Function SetColorGreen( const Color : TColor; const Green : Byte ) : TColor
2410: Function SetColorRed( const Color : TColor; const Red : Byte ) : TColor
2411: Function SetCurrentDir( Dir : string ) : Boolean
2412: function SetCurrentDir(const Dir: string): Boolean
2413: Function SetCurrentDirectory(PathName: PChar): WordBool; stdcall;
2414: Function SetDirCreation( const DirName : string; const DateTime : TDateTime ) : Boolean
2415: Function SetDirLastAccess( const DirName : string; const DateTime : TDateTime ) : Boolean
2416: Function SetDirLastWrite( const DirName : string; const DateTime : TDateTime ) : Boolean
2417: Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
2418: Function SetEndOfFile(Handle: Integer): LongBool; stdcall;
2419: Function SetEnvironmentVar( const Name, Value : string ) : Boolean
2420: Function SetErrorProc( ErrorProc : TSocketErrorProc ) : TSocketErrorProc
2421: Function SetFileCreation( const FileName : string; const DateTime : TDateTime ) : Boolean
2422: Function SetFileLastAccess( const FileName : string; const DateTime : TDateTime ) : Boolean
2423: Function SetFileLastWrite( const FileName : string; const DateTime : TDateTime ) : Boolean
2424: Function SetFileTimeStamp( const FileName : string; TimeStamp : Integer ) : Boolean
2425: function SETFOCUSDECONTROL(CONTROL:TWINCONTROL):BOOLEAN
2426: Function SetLocalTime( Value : TDateTime ) : boolean
2427: Function SetPrecisionTolerance( NewTolerance : Float ) : Float
2428: Function SetPrinter( NewPrinter : TPrinter ) : TPrinter
2429: Function SetPrivilege(privilegeName: string; enable: boolean): boolean;
2430: Function SetRGBValue( const Red, Green, Blue : Byte ) : TColor
2431: Function SetSequence( S, Localizar, Substituir : shortstring ) : shortstring
2432: Function SetSize( libNewSize : Longint ) : HResult
2433: Function SetUserObjectFullAccess( hUserObject : THandle ) : Boolean
2434: Function Sgn( const X : Extended ) : Integer
2435: function SHA1(const fileName: string): string;
2436: function SHA256(astr: string; amode: char): string)
2437: function SHA512(astr: string; amode: char): string)
2438: Function ShareMemoryManager : Boolean
2439: function ShellExecute(hWnd:HWND;Operation,FileN,Parameters,Dir:string;ShowCmd:Integer):integer;stdcall;
2440: function ShellExecute2(hwnd: HWND; const FileName: string):integer; stdcall;
2441: Function ShellExecute3(afilename: string; aParameters: string; aCommand:TS_ShellExecuteCmd): string;
2442: Function SHORTCUT( KEY : WORD; SHIFT : TSHIFTSTATE ) : TSHORTCUT
2443: Function SHORTCUTTOTEXT( SHORTCUT : TSHORTCUT ) : String

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2444: function ShortDateFormat: string;
2445: Function ShortenString(const DC:HDC;const S:WideString;const Width:Int;const
  RTL:Boolean;EllipsisWidth:Int):WideString
2446: function ShortTimeFormat: string;
2447: function SHOWMODAL: INTEGER
2448: Function ShowModalControl(aControl : TControl; BS : TFormBorderStyle; BI : TBorderIcons; WS :
  TWindowState; aColor : TColor; BW : Integer; Title : String; BeforeShowModal : TNotifyEvent) :
  TModalResult';
2449: Function
  ShowModalPanel(aPnl:TCustomPanel;Title:String;ShowCloseIcn:Bool;BefShowModal:TNotifyEvent):TModalResult;
2450: function ShowWindow(C1: HWND; C2: integer): boolean;
2451: procedure ShowMemory //in Dialog
2452: function ShowMemory2: string;
2453: Function ShutDownOS : Boolean
2454: Function Signe( const X, Y : Extended ) : Extended
2455: Function Sign( const X : Extended ) : Integer
2456: Function Sin(e : Extended) : Extended;
2457: Function sinc( const x : Double ) : Double
2458: Function SinJ( X : Float ) : Float
2459: Function Size( const AFileName : String ) : Integer
2460: function Sizeof: Longint;
2461: Function SizeofResource( ModuleHandle : HMODULE; ResHandle : TResourceHandle ) : Integer
2462: function SlashSep(const Path, S: String): String
2463: Function SLNDepreciation( const Cost, Salvage : Extended; Life : Integer ) : Extended
2464: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL ) : DWORD
2465: Function SmallPoint(X, Y: Integer): TSmallPoint)
2466: Function Soundex( const AText : string; ALength : TSoundexLength ) : string
2467: Function SoundexCompare( const AText, AOther : string; ALength : TSoundexLength ) : Integer
2468: Function SoundexInt( const AText : string; ALength : TSoundexIntLength ) : Integer
2469: Function SoundexProc( const AText, AOther : string ) : Boolean
2470: Function SoundexSimilar( const AText, AOther : string; ALength : TSoundexLength ) : Boolean
2471: Function SoundexWord( const AText : string ) : Word
2472: Function SourcePos : Longint
2473: function SourcePos:LongInt
2474: Function Split0( Str : string; const substr : string ) : TStringList
2475: Procedure SplitNameValue( const Line : string; var Name, Value : string )
2476: Function SQLRequiresParams( const SQL : WideString ) : Boolean
2477: Function Sqr(e : Extended) : Extended;
2478: Function Sqrt(e : Extended) : Extended;
2479: Function StartIP : String
2480: Function StartPan( WndHandle : THandle; AControl : TControl ) : Boolean
2481: Function StartOfADay( const AYear, AMonth, ADay : Word ) : TDateTime;
2482: Function StartOfADay1( const AYear, ADayOfYear : Word ) : TDateTime;
2483: Function StartOfAMonth( const AYear, AMonth : Word ) : TDateTime
2484: Function StartOfAWeek( const AYear, AWeekOfYear : Word; const ADayOfWeek : Word ) : TDateTime
2485: Function StartOfAYear( const AYear : Word ) : TDateTime
2486: Function StartOfTheDay( const AValue : TDateTime ) : TDateTime
2487: Function StartOfTheMonth( const AValue : TDateTime ) : TDateTime
2488: Function StartOfTheWeek( const AValue : TDateTime ) : TDateTime
2489: Function StartOfTheYear( const AValue : TDateTime ) : TDateTime
2490: Function StartsStr( const ASubText, AText : string ) : Boolean
2491: Function StartsText( const ASubText, AText : string ) : Boolean
2492: Function StartsWith( const ANSIStr, APattern : String ) : Boolean
2493: Function StartsWith( const str : string; const sub : string ) : Boolean
2494: Function StartsWithACE( const ABytes : TIdBytes ) : Boolean
2495: Function StatusString( StatusCode : Integer ) : string
2496: Function StdDev( const Data : array of Double ) : Extended
2497: Function Stop : Float
2498: Function StopCount( var Counter : TJclCounter ) : Float
2499: Function StoreColumns : Boolean
2500: Function StrAfter( const sString : string; const sDelimiters : string ) : string;
2501: Function StrAfter1( const sString : string; const sDelimiters : string; out cDelimiter : char ) : string;
2502: Function StrAlloc( Size : Cardinal ) : PChar
2503: function StrAlloc(Size: Cardinal): PChar)
2504: Function StrBefore( const sString : string; const sDelimiters : string ) : string;
2505: Function StrBefore1( const sString : string; const sDelimiters:string; out cDelimiter:char): string;
2506: Function StrBufSize( Str : PChar ) : Cardinal
2507: function StrBufSize(const Str: PChar): Cardinal)
2508: Function StrByteType( Str : PChar; Index : Cardinal ) : TMbcsByteType
2509: function StrByteType(Str: PChar; Index: Cardinal): TMbcsByteType)
2510: Function StrCat( Dest : PChar; Source : PChar ) : PChar
2511: function StrCat(Dest: PChar; const Source: PChar): PChar)
2512: Function StrCharLength( Str : PChar ) : Integer
2513: Function StrComp( Str1, Str2 : PChar ) : Integer
2514: function StrComp(const Str1: PChar; const Str2: PChar): Integer)
2515: Function StrCopy( Dest : PChar; Source : PChar ) : PChar
2516: function StrCopy(Dest: PChar; const Source: PChar): PChar)
2517: Function Stream_to_AnsiString( Source : TStream ) : ansistring
2518: Function Stream_to_Base64( Source : TStream ) : ansistring
2519: Function Stream_to_decimalbytes( Source : TStream ) : string
2520: Function Stream2WideString( oStream : TStream ) : WideString
2521: Function StreamtoAnsiString( Source : TStream ) : ansistring
2522: Function StreamToByte( Source : TStream ) : string
2523: Function Stream.ToDecimalbytes( Source : TStream ) : string
2524: Function StreamtoOrd( Source : TStream ) : string
2525: Function StreamToString( Source : TStream ) : string
2526: Function StrECopy( Dest : PChar; Source : PChar ) : PChar
2527: Function StrEmpty( const sString : string ) : boolean
2528: Function StrEnd( Str : PChar ) : PChar

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2529: function StrEnd(const Str: PChar): PChar
2530: Function StrFilter( const sString : string; xValidChars : TCharSet ) : string
2531: Function StrFmt(Buffer, Format: PChar; const Args: array of const): PChar
2532: Function StrGet(var S : String; I : Integer) : Char;
2533: Function StrGet2(S : String; I : Integer) : Char;
2534: Function StrHasPrefix( const sString : string; const sPrefix : string) : boolean
2535: Function StrHasSuffix( const sString : string; const sSuffix : string) : boolean
2536: Function StrHtmlDecode( const AStr : String) : String
2537: Function StrHtmlEncode( const AStr : String) : String
2538: Function StrToBytes(const Value: String): TBytes;
2539: Function StrIComp( Str1, Str2 : PChar) : Integer
2540: Function StringOfChar(c : char;I : longInt) : String;
2541: Function StringOfChar2( ch : WideChar; Count : Integer) : WideString;
2542: Function StringPad(InputStr,FillChar: String; StrLen:Integer; StrJustify:Boolean): String;
2543: Function StringRefCount(const s: String): integer;
2544: Function StringReplace( S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2545: Function JStringReplace( const S, OldPattern, NewPattern : string; Flags : TReplaceFlags) : string
2546: Function StringReplace(const SourceString, OldPattern,NewPattern:string; Flags:TReplaceFlags): string;
2547: Function StringRemove( const S, Pattern : string; Flags : TReplaceFlags) : string
2548: Function StringToBoolean( const Ps : string) : Boolean
2549: function StringToColor(const S: string): TColor
2550: function StringToCursor(const S: string): TCursor;
2551: function StringToGUID(const S: string): TGUID
2552: Function StringTokenizer( const str : string; const delim : string) : IStringTokenizer
2553: Function StringToStringArray( const str : string; const delim : string) : TStringDynArray
2554: Function StringWidth( S : string) : Integer
2555: Function StrInternetToDateTIme( Value : string) : TDateTIme
2556: Function StrIsDateTIme( const Ps : string) : Boolean
2557: Function StrIsFloatMoney( const Ps : string) : Boolean
2558: Function StrIsInteger( const S : string) : Boolean
2559: Function StrLCat( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2560: Function StrLComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2561: Function StrLCopy( Dest : PChar; Source : PChar; MaxLen : Cardinal) : PChar
2562: Function StrLen( Str : PChar) : Cardinal
2563: function StrLen(const Str: PChar): Cardinal
2564: Function StrLessPrefix( const sString : string; const sPrefix : string) : string
2565: Function StrLessSufix( const sString : string; const sSuffix : string) : string
2566: Function StrLIComp( Str1, Str2 : PChar; MaxLen : Cardinal) : Integer
2567: Function StrLower( Str : PChar) : PChar
2568: Function StrMove( Dest : PChar; Source : PChar; Count : Cardinal) : PChar
2569: function StrMove(Dest: PChar; const Source: PChar; Count: Cardinal): PChar)
2570: Function StrNew( Str : PChar) : PChar
2571: function StrNew(const Str: PChar): PChar)
2572: Function StrNextChar( Str : PChar) : PChar
2573: Function StrPad( const sString : string; const sPad : string; const iLength : integer) : string
2574: Function StrParse( var sString : string; const sDelimiters : string) : string;
2575: Function StrParseL( var sString : string; const sDelimiters : string; out cDelimiter : char) : string;
2576: Function StrPas( Str : PChar) : string
2577: function StrPas(const Str: PChar): string
2578: Function StrPCopy( Dest : PChar; Source : string) : PChar
2579: function StrPLCopy( Dest : PChar; Source : string): PChar)
2580: Function StrPos( Str1, Str2 : PChar) : PChar
2582: Function StrScan(const Str: PChar; Chr: Char): PChar)
2583: Function StrRScan(const Str: PChar; Chr: Char): PChar)
2584: Function StrToBcd( const AValue : string) : TBcd
2585: Function StrToBool( S : string) : Boolean
2586: Function StrToBoolDef( S : string; Default : Boolean) : Boolean
2587: Function StrToCard( const AStr : String) : Cardinal
2588: Function StrToConv( AText : string; out AType : TConvType) : Double
2589: Function StrToCurr( S : string) : Currency;
2590: function StrToCurr(const S: string): Currency)
2591: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2592: Function StrToDate( S : string) : TDateTIme;
2593: function StrToDate(const s: string): TDateTIme;
2594: Function StrToDateDef( S : string; Default : TDateTIme) : TDateTIme;
2595: Function StrToDateTIme( S : string) : TDateTIme;
2596: function StrToDateTIme(const S: string): TDateTIme)
2597: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;
2598: Function StrToDay( const ADay : string) : Byte
2599: Function StrToFloat( S : string) : Extended;
2600: function StrToFloat(s: String): Extended;
2601: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2602: function StrToFloatDef(const S: string; const Default: Extended): Extended)
2603: Function StrToFloat( S : string) : Extended;
2604: Function StrToFloat2( S : string; FormatSettings : TFormatSettings) : Extended;
2605: Function StrToFloatDef( S : string; Default : Extended) : Extended;
2606: Function StrToFloatDef2(S: string; Default: Extended;FormatSettings:TFormatSettings): Extended;
2607: Function StrToCurr( S : string) : Currency;
2608: Function StrToCurr2( S : string; FormatSettings : TFormatSettings) : Currency;
2609: Function StrToCurrDef( S : string; Default : Currency) : Currency;
2610: Function StrToCurrDef2( S : string; Default : Currency; FormatSettings : TFormatSettings) : Currency;
2611: Function StrToTime2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2612: Function StrToTimeDef( S : string; Default : TDateTIme) : TDateTIme;
2613: Function StrToTimeDef2( S : string; Default : TDateTIme; FormatSettings:TFormatSettings):TDateTIme;
2614: Function TryStrToTime( S : string; Value : TDateTIme) : Boolean;
2615: Function StrToDateTIme( S : string) : TDateTIme;
2616: Function StrToDateTIme2( S : string; FormatSettings : TFormatSettings) : TDateTIme;
2617: Function StrToDateTImeDef( S : string; Default : TDateTIme) : TDateTIme;

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2618: Function StrToFloatRegionalIndependent(aValue: String;aDecimalSymbol:Char;aDigitGroupSymbol:Char): Extended
2619: Function StrToInt( S : string ) : Integer
2620: function StrToInt(s: String): Longint;
2621: Function StrToInt64( S : string ) : Int64
2622: function StrToInt64(s: String): int64;
2623: Function StrToInt64Def( S : string; Default : Int64 ) : Int64
2624: function StrToInt64Def(const S: string; const Default: Int64):Int64)
2625: Function StrToIntDef( S : string; Default : Integer ) : Integer
2626: function StrToIntDef(const S: string; Default: Integer): Integer)
2627: function StrToIntDef(s: String; def: Longint): Longint;
2628: Function StrToMonth( const AMonth : string ) : Byte
2629: Function StrToTime( S : string ) : TDateTime;
2630: function StrToTime(const S: string): TDateTime)
2631: Function StrToTimeDef( S : string; Default : TDateTime ) : TDateTime;
2632: Function StrToWord( const Value : String ) : Word
2633: Function StrToXmlDate( const DateStr : string; const Format : string ) : string
2634: Function StrToXmlDateTime( const DateStr : string; const Format : string ) : string
2635: Function StrToXmlTime( const TimeStr : string; const Format : string ) : string
2636: Function StrUpper( Str : PChar ) : PChar
2637: Function StuffString( const AText : string; AStart, ALen : Cardinal; const ASubText : string ) : string
2638: Function Sum( const Data : array of Double ) : Extended
2639: Function SumFloatArray( const B : TDynFloatArray ) : Float
2640: Function SumInt( const Data : array of Integer ) : Integer
2641: Function SumOfSquares( const Data : array of Double ) : Extended
2642: Function SumPairProductFloatArray( const X, Y : TDynFloatArray ) : Float
2643: Function SumSquareDiffFloatArray( const B : TDynFloatArray; Diff : Float ) : Float
2644: Function SumSquareFloatArray( const B : TDynFloatArray ) : Float
2645: Function Supports( CursorOptions : TCursorOptions ) : Boolean
2646: Function SupportsClipboardFormat( AFormat : Word ) : Boolean
2647: Function SwapWord(w : word): word)
2648: Function SwapInt(i : integer): integer)
2649: Function SwapLong(L : longint): longint)
2650: Function Swap(i : integer): integer)
2651: Function SYDDepreciation( const Cost, Salvage : Extended; Life, Period : Integer ) : Extended
2652: Function SyncTime : Boolean
2653: Function SysErrorMessage( ErrorCode : Integer ) : string
2654: function SysErrorMessage(ErrorCode: Integer): string)
2655: Function SystemTimeToDate( SystemTime : TSystemTime ) : TDateTime
2656: function SystemTimeToDate( const SystemTime: TSystemTime): TDateTime;
2657: Function SysStringLen(const S: WideString): Integer; stdcall;
2658: Function TabRect( Index : Integer ) : TRect
2659: Function Tan( const X : Extended ) : Extended
2660: Function TaskMessageDlg(const Title,
  Msg:string;DlgType:TMsgDlgType;Buttons:TMsgDlgButtons;HelpCtx:Longint): Integer;
2661: Function TaskMessageDlgl( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; DefaultButton : TMsgDlgBtn) : Integer;
2662: Function TaskMessageDlgPos( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer ) : Integer;
2663: Function TaskMessageDlgPos1( const Title, Msg : string; DlgType : TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx : Longint; X, Y : Integer; DefaultButton : TMsgDlgBtn ) : Integer;
2664: Function TaskMessageDlgPosHelp( const Title, Msg : string; DlgType : TMsgDlgType; Buttons :
  TMsgDlgButtons; HelpCtx : Longint; X, Y : Integer; const HelpFileName : string ) : Integer;
2665: Function TaskMessageDlgPosHelp1( const Title, Msg:string;DlgType: TMsgDlgType; Buttons : TMsgDlgButtons;
  HelpCtx:Longint; X,Y: Integer;const HelpFileName:string;DefaultButton:TMsgDlgBtn): Integer;
2666: Function TenToY( const Y : Float ) : Float
2667: Function TerminateApp( ProcessID : DWORD; Timeout : Integer ) : TJclTerminateAppResult
2668: Function TerminateTask( Wnd : HWND; Timeout : Integer ) : TJclTerminateAppResult
2669: Function TestBit( const Value : Byte; const Bit : TBitRange ) : Boolean;
2670: Function TestBit2( const Value : Shortint; const Bit : TBitRange ) : Boolean;
2671: Function TestBit3( const Value : Smallint; const Bit : TBitRange ) : Boolean;
2672: Function TestBit4( const Value : Word; const Bit : TBitRange ) : Boolean;
2673: Function TestBit5( const Value : Cardinal; const Bit : TBitRange ) : Boolean;
2674: Function TestBit6( const Value : Integer; const Bit : TBitRange ) : Boolean;
2675: Function TestBit7( const Value : Int64; const Bit : TBitRange ) : Boolean;
2676: Function TestBits( const Value, Mask : Byte ) : Boolean;
2677: Function TestBits1( const Value, Mask : Shortint ) : Boolean;
2678: Function TestBits2( const Value, Mask : Smallint ) : Boolean;
2679: Function TestBits3( const Value, Mask : Word ) : Boolean;
2680: Function TestBits4( const Value, Mask : Cardinal ) : Boolean;
2681: Function TestBits5( const Value, Mask : Integer ) : Boolean;
2682: Function TestBits6( const Value, Mask : Int64 ) : Boolean;
2683: Function TestFDIVInstruction : Boolean
2684: function TestStreamFormat(Stream: TStream): TStreamOriginalFormat
2685: Function TextExtent( const Text : string ) : TSize
2686: function TextHeight(Text: string): Integer;
2687: Function TextIsSame( const A1 : string; const A2 : string ) : Boolean
2688: Function TextStartsWith( const S, SubS : string ) : Boolean
2689: function TextToFloat(Buffer: PChar; var Value: Extended; ValueType: TFloatValue): Boolean)
2690: Function ConvInteger(i : integer):string;
2691: Function IntegerToText(i : integer):string;
2692: Function TEXTTOSHORTCUT( TEXT : String ) : TSHORTCUT
2693: function TextWidth(Text: string): Integer;
2694: Function ThreadCount : integer
2695: function ThousandSeparator: char;
2696: Function Ticks : Cardinal
2697: Function Time : TDateTime
2698: function Time: TDateTime;
2699: function TimeGetTime: int64;
2700: Function TimeOf( const AValue : TDateTime) : TDateTime

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2701: function TimeSeparator: char;
2702: functionTimeStampToDateTIme(const TimeStamp: TTimeStamp): TDateTime
2703: FunctionTimeStampToMSecs( TimeStamp : TTimeStamp ) : Comp
2704: functionTimeStampToMSecs(const TimeStamp: TTimeStamp): Comp
2705: FunctionTimeToStr( DateTime : TDateTime ) : string;
2706: functionTimeToStr(const DateTime: TDateTime): string;
2707: FunctionTimeZoneBias : TDateTime
2708: FunctionToCommon( const AValue : Double ) : Double
2709: functionToCommon(const AValue: Double): Double;
2710: FunctionToday : TDateTime
2711: FunctionToggleBit( const Value : Byte; const Bit : TBitRange ) : Byte;
2712: FunctionToggleBit1( const Value : Shortint; const Bit : TBitRange ) : Shortint;
2713: FunctionToggleBit2( const Value : Smallint; const Bit : TBitRange ) : Smallint;
2714: FunctionToggleBit3( const Value : Word; const Bit : TBitRange ) : Word;
2715: FunctionToggleBit4( const Value : Cardinal; const Bit : TBitRange ) : Cardinal;
2716: FunctionToggleBit5( const Value : Integer; const Bit : TBitRange ) : Integer;
2717: FunctionToggleBit6( const Value : Int64; const Bit : TBitRange ) : Int64;
2718: functionTokenComponentIdent:string
2719: FunctionTokenFloat : Extended
2720: functionTokenFloat:Extended
2721: FunctionTokenInt : Longint
2722: functionTokenInt:LongInt
2723: FunctionTokenString : string
2724: functionTokenString:String
2725: FunctionTokenSymbolIs( const S : string ) : Boolean
2726: functionTokenSymbolIs(S:String):Boolean
2727: FunctionTomorrow : TDateTime
2728: FunctionToRightOf( const pc : TControl; piSpace : Integer ) : Integer
2729: FunctionToString : string
2730: FunctionTotalVariance( const Data : array of Double ) : Extended
2731: FunctionTrace2( AURL : string ) : string;
2732: FunctionTrackMenu( Button : TToolButton ) : Boolean
2733: FunctionTRANSLATE( SRC, DEST : PCHAR; TOOEM : BOOLEAN ) : INTEGER
2734: FunctionTranslateURI( const URI : string ) : string
2735: FunctionTranslationMatchesLanguages( Exact : Boolean ) : Boolean
2736: FunctionTransparentStretchBlt( DstDC : HDC; DstX,DstY,DstH:Integer;SrcDC:HDC;SrcX,SrcY,SrcW,
  SrcH:Integer;MaskDC : HDC; MaskX, MaskY : Integer ) : Boolean
2737: FunctionTrim( S : string ) : string;
2738: FunctionTrim( S : WideString ) : WideString;
2739: FunctionTrim(s : AnyString) : AnyString;
2740: FunctionTrimAllOf( ATrim, AText : String ) : String
2741: FunctionTrimLeft( S : string ) : string;
2742: FunctionTrimLeft( S : WideString ) : WideString;
2743: functionTrimLeft(const S: string): string
2744: FunctionTrimRight( S : string ) : string;
2745: FunctionTrimRight( S : WideString ) : WideString;
2746: functionTrimRight(const S: string): string
2747: functionTrueBoolStrs: array of string
2748: FunctionTrunc(e : Extended) : Longint;
2749: FunctionTrunc64(e: extended): Int64;
2750: FunctionTruncPower( const Base, Exponent : Float ) : Float
2751: FunctionTryConvTypeToFamily( const AFrom : TConvType; out AFamily : TConvFamily ) : Boolean;
2752: FunctionTryConvTypeToFamily1( const AType : TConvType; out AFamily : TConvFamily ) : Boolean;
2753: functionTryEncodeDate(Year, Month, Day: Word; var Date: TDateTime): Boolean;
2754: FunctionTryEncodeDateDay( const AYear, ADayOfYear : Word; out AValue : TDateTime ) : Boolean
2755: FunctionTryEncodeDateMonthWeek( const AY,AMonth,AWeekOfMonth,ADayOfWeek:Word;var AValue:TDateTime): Boolean
2756: FunctionTryEncodeDateTime( const AYear,AMonth,ADay,AMin,Asec,AMilliSecond:Word; out
  AValue:TDateTime):Boolean
2757: FunctionTryEncodeDateWeek( const AY,AWeekOfYear:Word;out AValue:TDateTime;const ADayOfWeek:Word): Boolean
2758: FunctionTryEncodeDayOfWeekInMonth( const AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word;out
  AVal:TDateTime):Bool
2759: functionTryEncodeTime(Hour, Min, Sec, MSec: Word; var Time: TDateTime): Boolean;
2760: FunctionTryFloatToDateTIme( Value : Extended; AResult : TDateTime ) : Boolean
2761: FunctionTryJulianToDateTIme( const AValue : Double; out ADateTIme : TDateTime ) : Boolean
2762: FunctionTryLock : Boolean
2763: FunctionTryModifiedJulianDateToDateTIme( const AValue : Double; out ADateTIme : TDateTime ) : Boolean
2764: FunctionTryRecodeDateTime( const AValue : TDateTime; const AYear, AMonth, ADay, AHour, AMinute, ASecond,
  AMilliSecond : Word; out AResult : TDateTime ) : Boolean
2765: FunctionTryStrToBcd( const AValue : string; var Bcd : TBcd ) : Boolean
2766: FunctionTryStrToConv( AText : string; out AValue : Double; out AType : TConvType ) : Boolean
2767: FunctionTryStrToDate( S : string; Value : TDateTime ) : Boolean;
2768: FunctionTryStrToDateTIme( S : string; Value : TDateTime ) : Boolean;
2769: FunctionTryStrToTime( S : string; Value : TDateTime ) : Boolean;
2770: FunctionTryStrToInt( const S: AnsiString; var I: Integer): Boolean;
2771: FunctionTryStrToInt64( const S: AnsiString; var I: Int64): Boolean;
2772: FunctionTwoByteToWord( AByte1, AByte2 : Byte) : Word
2773: FunctionTwoCharToWord( AChar1, AChar2 : Char ) : Word
2774: FunctionTwoToY( const Y : Float ) : Float
2775: FunctionUCS4StringToWideString( const S : UCS4String ) : WideString
2776: FunctionUIDL( const ADest : TStrings; const AMsgNum : Integer ) : Boolean
2777: functionUnassigned: Variant;
2778: FunctionUndoLastChange( FollowChange : Boolean ) : Boolean
2779: functionUniCodeToStr(Value: string): string;
2780: FunctionUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean
2781: functionUnionRect(out Rect: TRect; const R1, R2: TRect): Boolean)
2782: FunctionUnixDateTImeToDelphiDateTIme( UnixDateTIme : Cardinal ) : TDateTime
2783: FunctionUnixPathToDosPath( const Path : string ) : string
2784: FunctionUnixToDateTIme( const AValue : Int64 ) : TDateTime
2785: functionUnixToDateTIme(U: Int64): TDateTime;

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2786: Function UnlockRegion( libOffset : Longint; cb : Largeint; dwLockType : Longint) : HResult
2787: Function UnlockResource( ResData : HGLOBAL) : LongBool
2788: Function UnlockVolume( var Handle : THandle) : Boolean
2789: Function UnMaskString( Mask, Value : String) : String
2790: function UpCase(ch : Char) : Char;
2791: Function UpCaseFirst( const AStr : string) : string
2792: Function UpCaseFirstWord( const AStr : string) : string
2793: Function UpdateAction( Action : TBasicAction) : Boolean
2794: Function UpdateKind : TUpdateKind
2795: Function UPDATESTATUS : TUPDATESTATUS
2796: Function UpperCase( S : string) : string
2797: Function Uppercase(s : AnyString) : AnyString;
2798: Function URLDecode( ASrc : string) : string
2799: Function URLEncode( const ASrc : string) : string
2800: Function UseRightToLeftAlignment : Boolean
2801: Function UseRightToLeftAlignmentForField( const AField : TField; Alignment : TAlignment) : Boolean
2802: Function UseRightToLeftReading : Boolean
2803: Function UTF8CharLength( Lead : Char) : Integer
2804: Function UTF8CharSize( Lead : Char) : Integer
2805: Function UTF8Decode( const S : UTF8String) : WideString
2806: Function UTF8Encode( const WS : WideString) : UTF8String
2807: Function UTF8LowerCase( const S : UTF8String) : UTF8String
2808: Function Utf8ToAnsi( const S : UTF8String) : string
2809: Function Utf8ToAnsiEx( const S : UTF8String; const cp : integer) : string
2810: Function UTF8UpperCase( const S : UTF8String) : UTF8String
2811: Function ValidFieldIndex( FieldIndex : Integer) : Boolean
2812: Function ValidParentForm(control: TControl): TForm
2813: Function Value : Variant
2814: Function ValueExists( const Section, Ident : string) : Boolean
2815: Function ValueOf( const Key : string) : Integer
2816: Function ValueInSet(AValue: Variant; ASet: Variant): Boolean;
2817: Function VALUEOFKEY( const AKEY : VARIANT) : VARIANT
2818: Function VarArrayFromStrings( Strings : TStrings) : Variant
2819: Function VarArrayFromWideStrings( Strings : TWideStrings) : Variant
2820: Function VarArrayGet(var S : Variant; I : Integer) : Variant;
2821: Function VarFMTBcd : TVarType
2822: Function VarFMTBcdCreate1 : Variant;
2823: Function VarFMTBcdCreate2( const AValue : string; Precision, Scale : Word) : Variant;
2824: Function VarFMTBcdCreate3( const AValue : Double; Precision : Word; Scale : Word) : Variant;
2825: Function VarFMTBcdCreate4( const ABcd : TBcd) : Variant;
2826: Function Variance( const Data : array of Double) : Extended
2827: Function VariantAdd2( const V1 : Variant; const V2 : Variant) : Variant
2828: Function VariantAnd2( const V1 : Variant; const V2 : Variant) : Variant
2829: Function VariantDiv2( const V1 : Variant; const V2 : Variant) : Variant
2830: Function VariantGetElement( const V : Variant; i1 : integer) : Variant;
2831: Function VariantGetElement1( const V : Variant; i1, i2 : integer) : Variant;
2832: Function VariantGetElement2( const V : Variant; i1, i2, i3 : integer) : Variant;
2833: Function VariantGetElement3( const V : Variant; i1, i2, i3, i4 : integer) : Variant;
2834: Function VariantGetElement4( const V : Variant; i1, i2, i3, i4, i5 : integer) : Variant;
2835: Function VariantMod2( const V1 : Variant; const V2 : Variant) : Variant
2836: Function VariantMul2( const V1 : Variant; const V2 : Variant) : Variant
2837: Function VariantNeg( const V1 : Variant) : Variant
2838: Function VariantNot( const V1 : Variant) : Variant
2839: Function VariantOr2( const V1 : Variant; const V2 : Variant) : Variant
2840: Function VariantShl2( const V1 : Variant; const V2 : Variant) : Variant
2841: Function VariantShr2( const V1 : Variant; const V2 : Variant) : Variant
2842: Function VariantSub2( const V1 : Variant; const V2 : Variant) : Variant
2843: Function VariantXor2( const V1 : Variant; const V2 : Variant) : Variant
2844: function VarIsEmpty(const V: Variant): Boolean;
2845: Function VarIsFMTBcd( const AValue : Variant) : Boolean;
2846: function VarIsNull(const V: Variant): Boolean;
2847: Function VarToBcd( const AValue : Variant) : TBcd
2848: function VarType(const V: Variant): TVarType;
2849: Function VarType( const V : Variant) : TVarType
2850: Function VarAsType( const V : Variant; AVarType : TVarType) : Variant
2851: Function VarIsType( const V : Variant; AVarType : TVarType) : Boolean;
2852: Function VarIsType1( const V : Variant; const AVarTypes : array of TVarType) : Boolean;
2853: Function VarIsByRef( const V : Variant) : Boolean
2854: Function VarIsEmpty( const V : Variant) : Boolean
2855: Procedure VarCheckEmpty( const V : Variant)
2856: Function VarIsNull( const V : Variant) : Boolean
2857: Function VarIsClear( const V : Variant) : Boolean
2858: Function VarIsCustom( const V : Variant) : Boolean
2859: Function VarIsOrdinal( const V : Variant) : Boolean
2860: Function VarIsFloat( const V : Variant) : Boolean
2861: Function VarIsNumeric( const V : Variant) : Boolean
2862: Function VarIsStr( const V : Variant) : Boolean
2863: Function VarToStr( const V : Variant) : string
2864: Function VarToStrDef( const V : Variant; const ADefault : string) : string
2865: Function VarToWideStr( const V : Variant) : WideString
2866: Function VarToWideStrDef( const V : Variant; const ADefault : WideString) : WideString
2867: Function VarToDateTime( const V : Variant) : TDateTime
2868: Function VarFromDateTime( const DateTime : TDateTime) : Variant
2869: Function VarInRange( const AValue, AMin, AMax : Variant) : Boolean
2870: Function VarEnsureRange( const AValue, AMin, AMax : Variant) : Variant
2871: TVariantRelationship', '( vrEqual, vrLessThan, vrGreater Than, vrNotEqual )'
2872: Function VarSameValue( const A, B : Variant) : Boolean
2873: Function VarCompareValue( const A, B : Variant) : TVariantRelationship
2874: Function VarIsEmptyParam( const V : Variant) : Boolean

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2875: Function VarIsErrorHandler( const V : Variant; out AResult : HRESULT) : Boolean;
2876: Function VarIsErrorL( const V : Variant) : Boolean;
2877: Function VarAsError( AResult : HRESULT) : Variant;
2878: Procedure VarCopyNoInd( var Dest : Variant; const Source : Variant);
2879: Function VarIsArray( const A : Variant) : Boolean;
2880: Function VarIsArrayL( const A : Variant; AResolveByRef : Boolean) : Boolean;
2881: Function VarArrayCreate( const Bounds : array of Integer; AVarType : TVarType) : Variant;
2882: Function VarArrayOf( const Values : array of Variant) : Variant;
2883: Function VarArrayRef( const A : Variant) : Variant;
2884: Function VarTypeIsValidArrayType( const AVarType : TVarType) : Boolean;
2885: Function VarTypeIsValidElementType( const AVarType : TVarType) : Boolean;
2886: Function VarArrayDimCount( const A : Variant) : Integer;
2887: Function VarArrayLowBound( const A : Variant; Dim : Integer) : Integer;
2888: Function VarArrayHighBound( const A : Variant; Dim : Integer) : Integer;
2889: Function VarArrayLock( const A : Variant) : __Pointer;
2890: Procedure VarArrayUnlock( const A : Variant);
2891: Function VarArrayGet( const A : Variant; const Indices : array of Integer) : Variant;
2892: Procedure VarArrayPut( var A : Variant; const Value : Variant; const Indices : array of Integer);
2893: Procedure DynArrayToVariant( var V : Variant; const DynArray : __Pointer; TypeInfo : __Pointer);
2894: Procedure DynArrayFromVariant( var DynArray : __Pointer; const V : Variant; TypeInfo : __Pointer);
2895: Function Unassigned : Variant;
2896: Function Null : Variant;
2897: Function VectorAdd( const V1, V2 : TFlopPoint) : TFlopPoint;
2898: function VectorAdd(const V1,V2: TFlopPoint): TFlopPoint;
2899: Function VectorDot( const V1, V2 : TFlopPoint) : Double;
2900: function VectorDot(const V1,V2: TFlopPoint): Double;
2901: Function VectorLengthSqr( const V : TFlopPoint) : Double;
2902: function VectorLengthSqr(const V: TFlopPoint): Double;
2903: Function VectorMult( const V : TFlopPoint; const s : Double) : TFlopPoint;
2904: function VectorMult(const V: TFlopPoint; const s: Double): TFlopPoint;
2905: Function VectorSubtract( const V1, V2 : TFlopPoint) : TFlopPoint;
2906: function VectorSubtract(const V1,V2: TFlopPoint): TFlopPoint;
2907: Function Verify( AUserName : String) : String;
2908: Function Versine( X : Float) : Float;
2909: function VersionCheck: boolean;
2910: function VersionCheckAct: string;
2911: Function VersionLanguageId( const LangIdRec : TLangIdRec) : string;
2912: Function VersionLanguageName( const LangId : Word) : string;
2913: Function VersionResourceAvailable( const FileName : string) : Boolean;
2914: Function Visible : Boolean;
2915: function VolumeID(DriveChar: Char): string;
2916: Function WaitFor( const AString : string) : string;
2917: Function WaitFor( const TimeOut : Cardinal) : TJclWaitResult;
2918: Function WaitFor1 : TWaitResult;
2919: Function WaitForData( Timeout : Longint) : Boolean;
2920: Function WebColorNameToColor( WebColorName : string) : TColor;
2921: Function WebColorStrToColor( WebColor : string) : TColor;
2922: Function WebColorToRGB( WebColor : Integer) : Integer;
2923: Function wGet(aURL, afile: string): boolean;
2924: Function wGet2(aURL, afile: string): boolean; //without file open;
2925: Function WebGet(aURL, afile: string): boolean;
2926: Function WebExists: boolean; //alias to isinternet;
2927: Function WeekOf( const AValue : TDateTime) : Word;
2928: Function WeekOfTheMonth( const AValue : TDateTime) : Word;
2929: Function WeekOfTheMonth1( const AValue : TDateTime; var AYear, AMonth : Word) : Word;
2930: Function WeekOfTheYear( const AValue : TDateTime) : Word;
2931: Function WeekOfTheYear1( const AValue : TDateTime; var AYear : Word) : Word;
2932: Function WeeksBetween( const ANow, AThen : TDateTime) : Integer;
2933: Function WeeksInAYear( const AYear : Word) : Word;
2934: Function WeeksInYear( const AValue : TDateTime) : Word;
2935: Function WeekSpan( const ANow, AThen : TDateTime) : Double;
2936: Function WideAdjustLineBreaks( const S : WideString; Style : TTextLineBreakStyle) : WideString;
2937: Function WideCat( const x, y : WideString) : WideString;
2938: Function WideCompareStr( S1, S2 : WideString) : Integer;
2939: function WideCompareStr(const S1: WideString; const S2: WideString): Integer;
2940: Function WideCompareText( const S1 : WideString; const S2 : WideString): Integer;
2941: function WideCompareText( const S1: WideString; const S2: WideString): Integer;
2942: Function WideCopy( const src : WideString; index, count : Integer) : WideString;
2943: Function WideDequotedStr( const S : WideString; AQuote : WideChar) : WideString;
2944: Function WideEqual( const x, y : WideString) : Boolean;
2945: function WideFormat(const Format: WideString; const Args: array of const): WideString;
2946: Function WideGreater( const x, y : WideString) : Boolean;
2947: Function WideLength( const src : WideString) : Integer;
2948: Function WideLess( const x, y : WideString) : Boolean;
2949: Function WideLowerCase( S : WideString) : WideString;
2950: function WidelowerCase(const S: WideString): WideString;
2951: Function WidePos( const src, sub : WideString) : Integer;
2952: Function WideQuotedStr( const S : WideString; Quote : WideChar) : WideString;
2953: Function WideReplaceStr( const AText, AFromText, AToText : WideString) : WideString;
2954: Function WideReplaceText( const AText, AFromText, AToText : WideString) : WideString;
2955: Function WideSameStr( S1, S2 : WideString) : Boolean;
2956: function WideSameStr(const S1: WideString; const S2: WideString): Boolean;
2957: Function WideSameText( S1, S2 : WideString) : Boolean;
2958: function WideSameText( const S1: WideString; const S2: WideString): Boolean;
2959: Function WideStringReplace(const S,OldPattern, NewPattern: Widestring; Flags: TReplaceFlags): Widestring;
2960: Function WideStringToUCS4String( const S : WideString) : UCS4String;
2961: Function WideUpperCase( S : WideString) : WideString;
2962: Function Win32BackupFile( const FileName : string; Move : Boolean) : Boolean;
2963: function Win32Check(RetVal: boolean): boolean;

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2964: Function Win32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean) : Boolean
2965: Function Win32RestoreFile( const FileName : string) : Boolean
2966: Function Win32Type : TIIdWin32Type
2967: Function WinColor( const Color32 : TColor32) : TColor
2968: function winexec(FileName: pchar; showCmd: integer): integer;
2969: Function WinExec32( const Cmd : string; const CmdShow : Integer) : Boolean
2970: Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer) : Cardinal
2971: Function WithinPastDays( const ANow, AThen : TDateTime; const ADays : Integer) : Boolean
2972: Function WithinPastHours( const ANow, AThen : TDateTime; const AHours : Int64) : Boolean
2973: Function WithinPastMilliseconds( const ANow, AThen : TDateTime; const AMilliseconds : Int64) : Boolean
2974: Function WithinPastMinutes( const ANow, AThen : TDateTime; const AMinutes : Int64) : Boolean
2975: Function WithinPastMonths( const ANow, AThen : TDateTime; const AMonths : Integer) : Boolean
2976: Function WithinPastSeconds( const ANow, AThen : TDateTime; const ASeconds : Int64) : Boolean
2977: Function WithinPastYears( const ANow, AThen : TDateTime; const AYears : Integer) : Boolean
2978: Function WNetAddConnection( lpRemoteName, lpPassword, lpLocalName : PChar) : DWORD
2980: Function WordToStr( const Value : Word) : String
2981: Function WordGridFormatIdentToInt( const Ident : string; var Value : Longint) : Boolean
2982: Function IntToWordGridFormatIdent( Value : Longint; var Ident : string) : Boolean
2983: Procedure GetWordGridFormatValues( Proc : TGetStrProc)
2984: Function WorkArea : Integer
2985: Function WrapText( Line : string; MaxCol : Integer) : string;
2986: Function WrapText2( Line, BreakStr : string; BreakChars : TSysCharSet; MaxCol : Integer) : string;
2987: Function Write( pv : Pointer; cb : Longint; pcbWritten : PLongint) : HResult
2988: function Write(Buffer:String;Count:LongInt):LongInt
2989: Function WriteClient( var Buffer, Count : Integer) : Integer
2990: Function WriteFile( const AFile : string; const AEnableTransferFile : Boolean) : Cardinal
2991: Function WriteHeaders( StatusCode : Integer; const ReasonString, Headers : string) : Boolean
2992: Function WriteString( const AString : string) : Boolean
2993: Function WStrGet(var S : AnyString; I : Integer) : WideChar;
2994: Function vwsprintf( Output : PChar; Format : PChar; arglist : va_list) : Integer
2995: Function wsprintf( Output : PChar; Format : PChar) : Integer
2996: Function XmlDateTimeToStr( const XmlDateTime : string; const Format : string) : string
2997: Function XmlTimeToStr( const XmlTime : string; const Format : string) : string
2998: Function XorDecode( const Key, Source : string) : string
2999: Function XorEncode( const Key, Source : string) : string
3000: Function XorString( const Key, Src : ShortString) : ShortString
3001: Function Yield : Bool
3002: Function Yearof( const AValue : TDateTime) : Word
3003: Function YearsBetween( const ANow, AThen : TDateTime) : Integer
3004: Function YearSpan( const ANow, AThen : TDateTime) : Double
3005: Function Yesterday : TDateTime
3006: Function YesNoDialog(const ACaption, AMsg: string): boolean;
3007: Function( const Name : string; Proc : TUserFunction)
3008: Function using Special_Scholz from 3.8.5.0
3009: Function TimeToFloat(value:Extended):Extended; // Normalstunden --> Industriestunden
3010: Function FloatToTime(value:Extended):Extended; // Industriestunden --> Normalstunden
3011: Function FloatToTime2Dec(value:Extended):Extended;
3012: Function MinToStd(value:Extended):Extended;
3013: Function MinToStdAsString(value:Extended):String;
3014: Function RoundFloatToStr(zahl:Extended; decimals:integer):String;
3015: Function RoundFloat(zahl:Extended; decimals:integer):Extended;
3016: Function Round2Dec (zahl:Extended):Extended;
3017: Function GetAngle(x,y:Extended):Double;
3018: Function AddAngle(a1,a2:Double):Double;
3019:
3020: ****
3021: unit UPSI_StText;
3022: ****
3023: Function TextSeek( var F : TextFile; Target : LongInt) : Boolean
3024: Function TextFileSize( var F : TextFile) : LongInt
3025: Function TextPos( var F : TextFile) : LongInt
3026: Function TextFlush( var F : TextFile) : Boolean
3027:
3028: ****
3029: from JvVCLUtils;
3030: ****
3031: { Windows resources (bitmaps and icons) VCL-oriented routines }
3032: procedure DrawBitmapTransparent(Dest:TCanvas;DstX,DstY:Integer;Bitmap:TBitmap;TransparentColor:TColor);
3033: procedure DrawBitmapRectTransparent(Dest : TCanvas; DstX, DstY: Integer; SrcRect: TRect; Bitmap: TBitmap; TransparentColor: TColor);
3034: procedure StretchBitmapRectTransparent(Dest : TCanvas; DstX, DstY, DstW,DstH: Integer; SrcRect: TRect; Bitmap: TBitmap; TransparentColor: TColor);
3035: function MakeBitmap(ResID: PChar): TBitmap;
3036: function MakeBitmapID(ResID: Word): TBitmap;
3037: function MakeModuleBitmap(Module: THandle; ResID: PChar): TBitmap;
3038: function CreateTwoColorsBrushPattern(Color1, Color2: TColor): TBitmap;
3039: function CreateDisabledBitmap_NewStyle(FOriginal: TBitmap; BackColor: TColor): TBitmap;
3040: function CreateDisabledBitmapEx(FOriginal: TBitmap; OutlineColor, BackColor, HighlightColor, ShadowColor: TColor; DrawHighlight: Boolean): TBitmap;
3041: function CreateDisabledBitmap(FOriginal: TBitmap; OutlineColor: TColor): TBitmap;
3043: function ChangeBitmapColor(Bitmap: TBitmap; Color, NewColor: TColor): TBitmap;
3044: procedure AssignBitmapCell(Source: TGraphic; Dest: TBitmap; Cols, Rows,Index: Integer);
3045: {$IFDEF WIN32}
3046: procedure ImageListDrawDisabled(Images: TImageList; Canvas: TCanvas;
3047: X, Y, Index: Integer; HighlightColor, GrayColor: TColor; DrawHighlight: Boolean);
3048: {$ENDIF}
3049: function MakeIcon(ResID: PChar): TIcon;
3050: function MakeIconID(ResID: Word): TIcon;

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3051: function MakeModuleIcon(Module: THandle; ResID: PChar): TIcon;
3052: function CreateBitmapFromIcon(Icon: TIcon; BackColor: TColor): TBitmap;
3053: {$IFDEF WIN32}
3054: function CreateIconFromBitmap(Bitmap: TBitmap; TransparentColor: TColor): TIcon;
3055: {$ENDIF}
3056: { Service routines }
3057: procedure NotImplemented;
3058: procedure ResourceNotFound(ResID: PChar);
3059: function PointInRect(const P: TPoint; const R: TRect): Boolean;
3060: function PointInPolyRgn(const P: TPoint; const Points: array of TPoint): Boolean;
3061: function PaletteColor(Color: TColor): Longint;
3062: function WidthOf(R: TRect): Integer;
3063: function HeightOf(R: TRect): Integer;
3064: procedure PaintInverseRect(const RectOrg, RectEnd: TPoint);
3065: procedure DrawInvertFrame(ScreenRect: TRect; Width: Integer);
3066: procedure CopyParentImage(Control: TControl; Dest: TCanvas);
3067: procedure Delay(MSecs: Longint);
3068: procedure CenterControl(Control: TControl);
3069: Function PaletteEntries( Palette : HPALETTE ) : Integer
3070: Function WindowClassName( Wnd : HWND ) : string
3071: Function ScreenWorkArea : TRect
3072: Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer )
3073: Procedure SwitchToWindow( Wnd : HWND; Restore : Boolean )
3074: Procedure ActivateWindow( Wnd : HWND )
3075: Procedure ShowWinNoAnimate( Handle : HWND; CmdShow : Integer )
3076: Procedure CenterWindow( Wnd : HWND )
3077: Procedure ShadeRect( DC : HDC; const Rect : TRect )
3078: Procedure KillMessage( Wnd : HWND; Msg : Cardinal )
3079: Function DialogsToPixelsX( Dlgs : Word ) : Word
3080: Function DialogsToPixelsY( Dlgs : Word ) : Word
3081: Function PixelsToDialogsX( Pixs : Word ) : Word
3082: Function PixelsToDialogsY( Pixs : Word ) : Word
3083: {$IFDEF WIN32}
3084: procedure ShowMDIClientEdge(ClientHandle: THandle; ShowEdge: Boolean);
3085: function MakeVariant(const Values: array of Variant): Variant;
3086: {$ENDIF}
3087: function CreateRotatedFont(Font: TFont; Angle: Integer): HFONT;
3088: function MsgBox(const Caption, Text: string; Flags: Integer): Integer;
3089: function MsgDlg(const Msg:string; AType:TMsgDlgType; AButtons: TMsgDlgButtons; HelpCtx: Longint): Word;
3090: {$IFDEF CBUILER}
3091: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): HWND;
3092: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
3093: {$ELSE}
3094: function FindPrevInstance(const MainFormClass, ATitle: string): HWND;
3095: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
3096: {$ENDIF CBUILER}
3097: function IsForegroundTask: Boolean;
3098: procedure MergeForm(AControl: TWinControl; AForm: TForm; Align: TAlign; Show: Boolean);
3099: function GetAveCharSize(Canvas: TCanvas): TPoint;
3100: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
3101: procedure FreeUnusedOLE;
3102: procedure Beep;
3103: function GetWindowsVersion: string;
3104: function LoadDLL(const LibName: string): THandle;
3105: function RegisterServer(const ModuleName: string): Boolean;
3106: {$IFDEF WIN32}
3107: function IsLibrary: Boolean;
3108: {$ENDIF}
3109: { Gradient filling routine }
3110: type TFillDirection = (fdTopToBottom, fdBottomToTop, fdLeftToRight, fdRightToLeft);
3111: procedure GradientFillRect(Canvas: TCanvas; ARect: TRect; StartColor, EndColor: TColor; Direction: TFillDirection; Colors: Byte);
3112: { String routines }
3113: function GetEnvVar(const VarName: string): string;
3114: function AnsiUpperFirstChar(const S: string): string;
3115: function StringToPChar(var S: string): PChar;
3116: function StrAlloc(const S: string): PChar;
3117: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
3118: function DropT(const S: string): string;
3119: { Memory routines }
3120: function AllocMemo(Size: Longint): Pointer;
3121: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
3122: procedure FreeMemo(var fpBlock: Pointer);
3123: function GetMemosize(fpBlock: Pointer): Longint;
3124: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
3125: {$IFDEF COMPILERS_UP}
3126: procedure FreeAndNil(var Obj);
3127: {$ENDIF}
3128: // from PNGloader
3129: Function OptimizeForPNG(Image: TLinearBitmap; QuantizationSteps: Integer; TransparentColor: TColor): Integer
3130: Procedure TransformRGB2LCOO( Image : TLinearBitmap)
3131: Procedure TransformLCO2RGB( Image : TLinearBitmap)
3132: Procedure SortPalette( const Pal : TPalette; var ColorMap : TColorMap)
3133: Function DrawButtonFace( Canvas : TCanvas; const Client : TRect; BevelWidth : Integer; Style : TButtonStyle; IsRounded, IsDown, IsFocused : Boolean) : TRect //TButtons
3134: Function IsAnAllResult( const AModalResult : TModalResult) : Boolean
3135: Function InitWndProc( HWindow : HWnd; Message, WParam : Longint; LParam : Longint ) : Longint
3136: AddConstantN('CTL3D_ALL', 'LongWord').SetUInt($FFFF);
3137: //Procedure ChangeBiDiModeAlignment( var Alignment : TAlignment)

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3138: //Function SendAppMessage( Msg : Cardinal; WParam, LParam : Longint ) : Longint
3139: //Procedure MoveWindowOrg( DC : HDC; DX, DY : Integer)
3140: Procedure SetIMEMode( hWnd : HWND; Mode : TImeMode )
3141: Procedure SetIMEName( Name : TIMEName )
3142: Function Win32NLSEnableIME( hWnd : HWND; Enable : Boolean ) : Boolean
3143: Function Imm32GetContext( hWnd : HWND ) : HIMC
3144: Function Imm32ReleaseContext( hWnd : HWND; hIMC : HIMC ) : Boolean
3145: Function Imm32GetConversionStatus( hIMC : HIMC; var Conversion, Sentence : longword ) : Boolean
3146: Function Imm32SetConversionStatus( hIMC : HIMC; Conversion, Sentence : longword ) : Boolean
3147: Function Imm32SetOpenStatus( hIMC : HIMC; fOpen : Boolean ) : Boolean
3148: // Function Imm32SetCompositionWindow( hIMC : HIMC; lpCompForm : PCOMPOSITIONFORM ) : Boolean
3149: // Function Imm32SetCompositionFont( hIMC : HIMC; lpLogFont : PLOGFONTA ) : Boolean
3150: Function Imm32GetCompositionString(hIMC:HIMC;dWord1:longword;lpBuf:string;dwBufLen:longint):Longint
3151: Function Imm32ISIME( hKI : longword ) : Boolean
3152: Function Imm32NotifyIME( hIMC : HIMC; dwAction, dwIndex, dwValue:longword):Boolean
3153: Procedure DragDone( Drop : Boolean )
3154:
3155:
3156: //*****added from jvvcutils
3157: function CanvasMaxTextHeight(Canvas: TCanvas): Integer;
3158: function ReplaceComponentReference(This,NewReference:TComponent;var VarReference:TComponent):Boolean;
3159: procedure DrawLine(Canvas: TCanvas; X, Y, X2, Y2: Integer);
3160: function IsPositiveResult(Value: TModalResult): Boolean;
3161: function IsNegativeResult(Value: TModalResult): Boolean;
3162: function IsAbortResult(const Value: TModalResult): Boolean;
3163: function StripAllFromResult(const Value: TModalResult): TModalResult;
3164: // returns either BrightColor or DarkColor depending on the luminance of AColor
3165: // This function gives the same result (AFAIK) as the function used in Windows to
3166: // calculate the desktop icon text color based on the desktop background color
3167: function SelectColorByLuminance(AColor, DarkColor, BrightColor: TColor): TColor;
3168: type TJvHTMLCalcType = (htmlShow, htmlCalcWidth, htmlCalcHeight, htmlHyperLink);
3169:
3170: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3171:   const State: TOwnerDrawState; const Text: string; var Width: Integer;
3172:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3173:   var LinkName: string; Scale: Integer = 100); overload;
3174: procedure HTMLDrawTextEx(Canvas: TCanvas; Rect: TRect;
3175:   const State: TOwnerDrawState; const Text: string; var Width, Height: Integer;
3176:   CalcType: TJvHTMLCalcType; MouseX, MouseY: Integer; var MouseOnLink: Boolean;
3177:   var LinkName: string; Scale: Integer = 100); overload;
3178: function HTMLDrawText(Canvas: TCanvas; Rect: TRect;
3179:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): string;
3180: function HTMLDrawTextHL(Canvas: TCanvas; Rect: TRect;
3181:   const State: TOwnerDrawState; const Text: string; MouseX, MouseY: Integer;
3182:   Scale: Integer = 100): string;
3183: function HTMLPlainText(const Text: string): string;
3184: function HTMLTextExtent(Canvas: TCanvas; Rect: TRect;
3185:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): TSize;
3186: function HTMLTextWidth(Canvas: TCanvas; Rect: TRect;
3187:   const State: TOwnerDrawState; const Text: string; Scale: Integer = 100): Integer;
3188: function HTMLTextHeight(Canvas: TCanvas; const Text: string; Scale: Integer = 100): Integer;
3189: function HTMLPrepareText(const Text: string): string;
3190:
3191: ***** uPSI_JvAppUtils;
3192: Function GetDefaultSection( Component : TComponent ) : string
3193: Procedure GetDefaultIniData( Control:TControl; var IniFileName, Section : string; UseRegistry : Boolean )
3194: Procedure GetDefaultIniData( Control : TControl; var IniFileName, Section : string )
3195: Function GetDefaultIniName : string
3196: //OnGetDefaultIniName , 'TOnGetDefaultIniName';
3197: Function GetDefaultIniKey : string
3198: Function FindForm( FormClass : TFormClass ) : TForm
3199: Function FindShowForm( FormClass : TFormClass; const Caption : string ) : TForm
3200: Function ShowDialog( FormClass : TFormClass ) : Boolean
3201: //Function InstantiateForm( FormClass : TFormClass; var Reference ) : TForm
3202: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3203: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string; UseRegistry : Boolean )
3204: Procedure SaveMDIChildrenReg( MainForm : TForm; IniFile : TRegIniFile )
3205: Procedure SaveFormPlacement( Form : TForm; const IniFileName : string )
3206: Procedure RestoreFormPlacement( Form : TForm; const IniFileName : string )
3207: Function GetUniqueFileNameInDir( const Path, FileNameMask : string ) : string
3208: Function StrToIniParam( const Str : string ) : string
3209: Function IniParamToStr( const Str : string ) : string
3210: Function IniParamReadString( IniFile : TObject; const Section, Ident, Default : string ) : string
3211: Procedure IniParamWriteString( IniFile : TObject; const Section, Ident, Value : string )
3212: Function IniParamReadInteger( IniFile : TObject; const Section, Ident : string; Default : Longint ) : Longint
3213: Procedure IniParamWriteInteger( IniFile : TObject; const Section, Ident : string; Value : Longint )
3214: Function IniParamReadBool( IniFile : TObject; const Section, Ident : string; Default : Boolean ) : Boolean
3215: Procedure IniParamWriteBool( IniFile : TObject; const Section, Ident : string; Value : Boolean )
3216: Procedure IniParamReadSections( IniFile : TObject; Strings : TStrings )
3217: Procedure IniParamEraseSection( IniFile : TObject; const Section : string )
3218: Procedure IniParamDeleteKey( IniFile : TObject; const Section, Ident : string )
3219: Procedure AppBroadcast( Msg, wParam : Longint; lParam : Longint )
3220: Procedure AppBroadcast( Msg, wParam : Word; lParam : Longint )
3221: Procedure AppTaskbarIcons( AppOnly : Boolean )
3222: Procedure InternalSaveGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3223: Procedure InternalRestoreGridLayout( Grid : TCustomGrid; IniFile : TObject; const Section : string )
3224: Procedure InternalSaveMDIChildren( MainForm : TForm; IniFile : TObject )
3225: Procedure InternalRestoreMDIChildren( MainForm : TForm; IniFile : TObject )
3226: ***** uPSI_JvDBUtils;

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

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3314: Function SecondsToMsecs( Seconds : Integer ) : Integer
3315: Function TimeOfDateTimeToSeconds( DateTime : TDateTime ) : Integer
3316: Function TimeOfDateTimeToMsecs( DateTime : TDateTime ) : Integer
3317: Function DateTimeToLocalDateTime( DateTime : TDateTime ) : TDateTime
3318: Function LocalDateTimeToDateDateTime( DateTime : TDateTime ) : TDateTime
3319: Function DateTimeToDosDateTime( const DateTime : TDateTime ) : TDosDateTime
3320: Function JDatetimeToFileTime( DateTime : TDateTime ) : TFileTime
3321: Function JDatetimeToSystemTime( DateTime : TDateTime ) : TSystemTime;
3322: Procedure DateDateTimeToSystemTime1( DateTime : TDateTime; var SysTime : TSystemTime );
3323: Function LocalDateTimeToFileTime( DateTime : TDateTime ) : FileTime
3324: Function DosDateTimeToDateDateTime( const DosTime : TDosDateTime ) : TDateTime
3325: Function JDosDateTimeToFileTime( DosTime : TDosDateTime ) : TFileTime;
3326: Procedure DosDateTimeToFileTime1( DTH, DTL : Word; FT : TFileTime );
3327: Function DosDateTimeToSystemTime( const DosTime : TDosDateTime ) : TSystemTime
3328: Function DosDateTimeToStr( DateTime : Integer ) : string
3329: Function JFileTimeToDateTime( const FileTime : TFileTime ) : TDateTime
3330: Function FileTimeToLocalDateTime( const FileTime : TFileTime ) : TDateTime
3331: Function JFileTimeToDosDateTime( const FileTime : TFileTime ) : TDosDateTime;
3332: Procedure FileTimeToDosDateTime1( const FileTime : TFileTime; var Date, Time : Word );
3333: Function JFileTimeToSystemTime( const FileTime : TFileTime ) : TSystemTime;
3334: Procedure FileTimeToSystemTime1( const Filetime : TFileTime; var ST : TSystemTime );
3335: Function FileTimeToStr( const FileTime : TFileTime ) : string
3336: Function SystemTimeToDosDateTime( const SystemTime : TSystemTime ) : TDosDateTime
3337: Function JSystemTimeToFileTime( const SystemTime : TSystemTime ) : TFileTime;
3338: Procedure SystemTimeToFileTime1( const SystemTime : TSystemTime; FTime : TFileTime );
3339: Function SystemTimeToStr( const SystemTime : TSystemTime ) : string
3340: Function CreationDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3341: Function LastAccessDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3342: Function LastWriteDateTimeOfFile( const Sr : TSearchRec ) : TDateTime
3343: TJclUnixTime32', 'Longword
3344: Function JDatetimeToUnixTime( DateTime : TDateTime ) : TJclUnixTime32
3345: Function JUnixTimeToDateTime( const UnixTime : TJclUnixTime32 ) : TDateTime
3346: Function FileTimeToUnixTime( const AValue : TFileTime ) : TJclUnixTime32
3347: Function UnixTimeToFileTime( const AValue : TJclUnixTime32 ) : TFileTime
3348: Function JNullStamp : TTimeStamp
3349: Function JCompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
3350: Function JEEqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
3351: Function JIsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
3352: Function TimeStampDOW( const Stamp : TTimeStamp ) : Integer
3353: Function FirstWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3354: Function FirstWeekDay1( const Year, Month : Integer ) : Integer;
3355: Function LastWeekDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3356: Function LastWeekDay1( const Year, Month : Integer ) : Integer;
3357: Function IndexedWeekDay( const Year, Month : Integer; Index : Integer ) : Integer
3358: Function FirstWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3359: Function FirstWeekendDay1( const Year, Month : Integer ) : Integer;
3360: Function LastWeekendDay( const Year, Month : Integer; var DOW : Integer ) : Integer;
3361: Function LastWeekendDay1( const Year, Month : Integer ) : Integer;
3362: Function IndexedWeekendDay( const Year, Month : Integer; Index : Integer ) : Integer
3363: Function FirstDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3364: Function LastDayOfWeek( const Year, Month, DayOfWeek : Integer ) : Integer
3365: Function IndexedDayOfWeek( const Year, Month, DayOfWeek, Index : Integer ) : Integer
3366:   FindClass('TOBJECT'), 'EJclDateTimeError
3367: end;
3368:
3369: procedure SIRegister_JclMiscel2(CL: TPSPascalCompiler);
3370: begin
3371:   Function SetDisplayResolution( const XRes, YRes : DWORD ) : Longint
3372:   Function CreateDOSProcessRedirected( const CommandLine, InputFile, OutputFile : string ) : Boolean
3373:   Function WinExec32( const Cmd : string; const CmdShow : Integer ) : Boolean
3374:   Function WinExec32AndWait( const Cmd : string; const CmdShow : Integer ) : Cardinal
3375:   Function WinExec32AndRedirectOutput(const Cmd: string; var Output: string; RawOutput:Boolean):Cardinal
3376:   TJclKillLevel', '( kNormal, kNoSignal, kTimeOut )
3377:   Function ExitWindows( ExitCode : Cardinal ) : Boolean
3378:   Function LogOffOS( KillLevel : TJclKillLevel ) : Boolean
3379:   Function PowerOffOS( KillLevel : TJclKillLevel ) : Boolean
3380:   Function ShutDownOS( KillLevel : TJclKillLevel ) : Boolean
3381:   Function RebootOS( Killlevel : TJclKillLevel ) : Boolean
3382:   Function HibernateOS( Force, DisableWakeEvents : Boolean ) : Boolean
3383:   Function SuspendOS( Force, DisableWakeEvents : Boolean ) : Boolean
3384:   Function ShutDownDialog( const DialogMessage:string;TimeOut:DWORD;Force,Reboot:Boolean ):Boolean;
3385:   Function ShutDownDialog1(const MachineName,DialogMessage:string;TimeOut:DWORD;Force,Reboot:Bool):Bool;
3386:   Function AbortShutDown : Boolean;
3387:   Function AbortShutdown( const MachineName : string ) : Boolean;
3388:   TJclAllowedPowerOperation', '( apoHibernate, apoShutdown, apoSuspend )
3389:   TJclAllowedPowerOperations', 'set of TJclAllowedPowerOperation
3390:   Function GetAllowedPowerOperations : TJclAllowedPowerOperations
3391:   FindClass('TOBJECT'), 'EJclCreateProcessError
3392:   Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string )
3393:   Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar );
3394:   // with Add(EJclCreateProcessError) do
3395: end;
3396:
3397:
3398: procedure SIRegister_JclAnsiStrings(CL: TPSPascalCompiler);
3399: begin
3400:   //AnsiSigns', 'Set').SetSet(['-', '+']);
3401:   'C1_UPPER','LongWord( $0001 );

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3402: 'C1_LOWER','LongWord( $0002);
3403: 'C1_DIGIT','LongWord').SetUInt( $0004);
3404: 'C1_SPACE','LongWord').SetUInt( $0008);
3405: 'C1_PUNCT','LongWord').SetUInt( $0010);
3406: 'C1_CNTRL','LongWord').SetUInt( $0020);
3407: 'C1_BLANK','LongWord').SetUInt( $0040);
3408: 'C1_XDIGIT','LongWord').SetUInt( $0080);
3409: 'C1_ALPHA','LongWord').SetUInt( $0100);
3410: AnsiChar', 'Char
3411: Function StrIsAlpha( const S : AnsiString ) : Boolean
3412: Function StrIsAlphaNum( const S : AnsiString ) : Boolean
3413: Function StrIsAlphaNumUnderscore( const S : AnsiString ) : Boolean
3414: Function StrContainsChars( const S:AnsiString;Chars:TSysCharSet; CheckAll : Boolean ) : Boolean
3415: Function StrConsistsOfNumberChars( const S : AnsiString ) : Boolean
3416: Function StrIsDigit( const S : AnsiString ) : Boolean
3417: Function StrIsSubset( const S : AnsiString; const ValidChars : TSysCharSet ) : Boolean
3418: Function StrSame( const S1, S2 : AnsiString ) : Boolean
3419: //Function StrCenter( const S : AnsiString; L : Integer; C : AnsiChar ) : AnsiString
3420: Function StrCharPosLower( const S : AnsiString; CharPos : Integer ) : AnsiString
3421: Function StrCharPosUpper( const S : AnsiString; CharPos : Integer ) : AnsiString
3422: Function StrDoubleQuote( const S : AnsiString ) : AnsiString
3423: Function StrEnsureNoPrefix( const Prefix, Text : AnsiString ) : AnsiString
3424: Function StrEnsureNoSuffix( const Suffix, Text : AnsiString ) : AnsiString
3425: Function StrEnsurePrefix( const Prefix, Text : AnsiString ) : AnsiString
3426: Function StrEnsureSuffix( const Suffix, Text : AnsiString ) : AnsiString
3427: Function StrEscapedToString( const S : AnsiString ) : AnsiString
3428: Function JStrLower( const S : AnsiString ) : AnsiString
3429: Procedure StrLowerInPlace( var S : AnsiString )
3430: //Procedure StrLowerBuff( S : PAnsiChar )
3431: Procedure JStrMove( var Dest:AnsiString; const Source:AnsiString;const ToIndex,FromIndex,Count:Integer );
3432: Function StrPadLeft( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3433: Function StrPadRight( const S : AnsiString; Len : Integer; C : AnsiChar ) : AnsiString
3434: Function StrProper( const S : AnsiString ) : AnsiString
3435: //Procedure StrProperBuff( S : PAnsiChar )
3436: Function StrQuote( const S : AnsiString; C : AnsiChar ) : AnsiString
3437: Function StrRemoveChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3438: Function StrKeepChars( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3439: Procedure JStrReplace(var S:AnsiString; const Search, Replace : AnsiString; Flags : TReplaceFlags)
3440: Function StrReplaceChar( const S : AnsiString; const Source, Replace : AnsiChar ) : AnsiString
3441: Function StrReplaceChars( const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString
3442: Function StrReplaceButChars(const S:AnsiString;const Chars:TSysCharSet;Replace:AnsiChar):AnsiString;
3443: Function StrRepeat( const S : AnsiString; Count : Integer ) : AnsiString
3444: Function StrRepeatLength( const S : AnsiString; const L : Integer ) : AnsiString
3445: Function StrReverse( const S : AnsiString ) : AnsiString
3446: Procedure StrReverseInPlace( var S : AnsiString )
3447: Function StrSingleQuote( const S : AnsiString ) : AnsiString
3448: Function StrSmartCase( const S : AnsiString; Delimiters : TSysCharSet ) : AnsiString
3449: Function StrStringToEscaped( const S : AnsiString ) : AnsiString
3450: Function StrStripNonNumberChars( const S : AnsiString ) : AnsiString
3451: Function StrToHex( const Source : AnsiString ) : AnsiString
3452: Function StrTrimCharLeft( const S : AnsiString; C : AnsiChar ) : AnsiString
3453: Function StrTrimCharsLeft( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3454: Function StrTrimCharRight( const S : AnsiString; C : AnsiChar ) : AnsiString
3455: Function StrTrimCharsRight( const S : AnsiString; const Chars : TSysCharSet ) : AnsiString
3456: Function StrTrimQuotes( const S : AnsiString ) : AnsiString
3457: Function JStrUpper( const S : AnsiString ) : AnsiString
3458: Procedure StrUpperInPlace( var S : AnsiString )
3459: //Procedure StrUpperBuff( S : PAnsiChar )
3460: Function StrOemToAnsi( const S : AnsiString ) : AnsiString
3461: Function StrAnsiToOem( const S : AnsiString ) : AnsiString
3462: Procedure StrAddRef( var S : AnsiString )
3463: Function StrAllocSize( const S : AnsiString ) : Longint
3464: Procedure StrDecRef( var S : AnsiString )
3465: //Function StrLen( S : PAnsiChar ) : Integer
3466: Function StrLength( const S : AnsiString ) : Longint
3467: Function StrRefCount( const S : AnsiString ) : Longint
3468: Procedure StrResetLength( var S : AnsiString )
3469: Function StrCharCount( const S : AnsiString; C : AnsiChar ) : Integer
3470: Function StrCharsCount( const S : AnsiString; Chars : TSysCharSet ) : Integer
3471: Function StrSCount( const S, SubS : AnsiString ) : Integer
3472: Function StrCompare( const S1, S2 : AnsiString ) : Integer
3473: Function StrCompareRange( const S1, S2 : AnsiString; const Index, Count : Integer ) : Integer
3474: //Function StrFillChar( const C : AnsiChar; Count : Integer ) : AnsiString;
3475: Function StrFillChar( const C : Char; Count : Integer ) : AnsiString;
3476: Function StrFillChar( const C: Char; Count: Integer): string';
3477: Function IntFillChar( const I: Integer; Count: Integer): string');
3478: Function ByteFillChar( const B: Byte; Count: Integer): string');
3479: Function ArrFillChar( const AC: Char; Count: Integer): TCharArray';
3480: Function ArrByteFillChar( const AB: Char; Count: Integer): TByteArray;
3481: Function StrFind( const Substr, S : AnsiString; const Index : Integer ) : Integer
3482: //Function StrHasPrefix( const S : AnsiString; const Prefixes : array of AnsiString ) : Boolean
3483: Function StrIndex( const S : AnsiString; const List : array of AnsiString ) : Integer
3484: Function StrILastPos( const SubStr, S : AnsiString ) : Integer
3485: Function StrIPos( const SubStr, S : AnsiString ) : Integer
3486: Function StrIsOneOf( const S : AnsiString; const List : array of AnsiString ) : Boolean
3487: Function StrLastPos( const SubStr, S : AnsiString ) : Integer
3488: Function StrMatch( const Substr, S : AnsiString; const Index : Integer ) : Integer
3489: Function StrMatches( const Substr, S : AnsiString; const Index : Integer ) : Boolean
3490: Function StrNIPos( const S, SubStr : AnsiString; N : Integer ) : Integer

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

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3577: Procedure FetchAllRecords( DataSet : TBDEDataSet )
3578: Function TransActive( Database : TDatabase ) : Boolean
3579: Function AsyncQrySupported( Database : TDatabase ) : Boolean
3580: Function GetQuoteChar( Database : TDatabase ) : string
3581: Procedure ExecuteQuery( const DbName, QueryText : string )
3582: Procedure ExecuteQueryEx( const SessName, DbName, QueryText : string )
3583: Function FieldLogicMap( FldType : TFieldType ) : Integer
3584: Function FieldSubtypeMap( FldType : TFieldType ) : Integer Value : string; Buffer : Pointer)
3585: Function GetAliasPath( const AliasName : string ) : string
3586: Function IsDirectory( const DatabaseName : string ) : Boolean
3587: Function GetBdeDirectory : string
3588: Function LoginToDatabase( Database : TDatabase; OnLogin : TDatabaseLoginEvent ) : Boolean
3589: Function DataSetFindValue( ADataSet : TBDEDataSet; const Value,FieldName : string ) : Boolean
3590: Function DataSetFindLike( ADataSet : TBDEDataSet; const Value,FieldName : string ) : Boolean
3591: Function DataSetRecNo( DataSet : TDataSet ) : Longint
3592: Function DataSetRecordCount( DataSet : TDataSet ) : Longint
3593: Function DataSetPositionStr( DataSet : TDataSet ) : string
3594: Procedure DataSetShowDeleted( DataSet : TBDEDataSet; Show : Boolean )
3595: Function CurrentRecordDeleted( DataSet : TBDEDataSet ) : Boolean
3596: Function IsFilterApplicable( DataSet : TDataSet ) : Boolean
3597: Function IsBookmarkStable( DataSet : TBDEDataSet ) : Boolean
3598: Procedure SetIndex( Table : TTable; const IndexFieldNames : string )
3599: Procedure RestoreIndex( Table : TTable )
3600: Procedure DeleteRange( Table : TTable; IndexFields : array of const; FieldValues : array of const )
3601: Procedure PackTable( Table : TTable )
3602: Procedure ReindexTable( Table : TTable )
3603: Procedure BdefflushBuffers
3604: Function GetNativeHandle( Database : TDatabase; Buffer : Pointer; BufSize : Integer ) : Pointer
3605: Procedure ToggleDebugLayer( Active : Boolean; const DebugFile : string )
3606: Procedure DbNotSupported
3607: Procedure ExportDataSet( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
    AsciiCharSet : string; AsciiDelimited : Boolean; MaxRecordCount : Longint )
3608: Procedure ExportDataSetEx( Source : TBDEDataSet; DestTable : TTable; TableType : TTableType; const
    AsciiCharSet:string;AsciiDelimited:Boolean;AsciiDelimiter,AsciiSeparator:Char;MaxRecordCount:Longint );
3609: Procedure
    ImportDataSet(Source:TBDEDataSet;DestTable:TTable;MaxRecordCount:Longint;Mappings:TStrings;Mode:TBatchMode);
3610: Procedure InitRSRUN(Database: TDatabase;const ConName:string; ConType:Integer;const ConServer:string);
3611: ****uPSI_JvDateUtil;
3612: function CurrentYear: Word;
3613: function IsLeapYear(AYear: Integer): Boolean;
3614: function DaysPerMonth(AYear, AMonth: Integer): Integer;
3615: function FirstDayOfPrevMonth: TDateTime;
3616: function LastDayOfPrevMonth: TDateTime;
3617: function FirstDayOfNextMonth: TDateTime;
3618: function ExtractDay(ADate: TDateTime): Word;
3619: function ExtractMonth(ADate: TDateTime): Word;
3620: function ExtractYear(ADate: TDateTime): Word;
3621: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
3622: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime;
3623: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
3624: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
3625: function ValidDate(ADate: TDateTime): Boolean;
3626: procedure DateDiff(Datet1, Date2: TDateTime; var Days, Months, Years: Word);
3627: function MonthsBetween(Datet1, Date2: TDateTime): Double;
3628: function DaysInPeriod(Datet1, Date2: TDateTime): Longint;
3629: { Count days between Datet1 and Date2 + 1, so if Datet1 = Date2 result = 1 }
3630: function DaysBetween(Datet1, Date2: TDateTime): Longint;
3631: { The same as previous but if Date2 < Datet1 result = 0 }
3632: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
3633: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
3634: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
3635: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
3636: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;
3637: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
3638: { String to date conversions }
3639: function GetDateOrder(const DateFormat: string): TDateOrder;
3640: function MonthFromName(const S: string; MaxLen: Byte): Byte;
3641: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
3642: function StrToDateFmt(const DateFormat, S: string): TDateTime;
3643: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
3644: function DefDateFormat(FourDigitYear: Boolean): string;
3645: function DefDateMask(BlanksChar: Char; FourDigitYear: Boolean): string;
3646: -----
3647: ***** JvUtils;*****
3648: { GetWordOnPos returns Word from string, S, on the cursor position, P}
3649: function GetWordOnPos(const S: string; const P: Integer): string;
3650: { GetWordOnPosEx work like GetWordOnPos function, also returns Word position in iBeg, iEnd variables }
3651: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
3652: { SubStr returns substring from string, S, separated with Separator string}
3653: function SubStr(const S: string; const Index: Integer; const Separator: string): string;
3654: { SubStrEnd same to previous function but Index numerated from the end of string }
3655: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
3656: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
3657: function SubWord(P: PChar; var P2: PChar): string;
3658: { NumberByWord returns the text representation of
3659:   the number, N, in normal russian language. Was typed from Monitor magazine }
3660: function NumberByWord(const N: Longint): string;
3661: // function CurrencyByWord(Value : Currency) : string; GetLineByPos returns Line number, there
3662: //the symbol Pos is pointed. Lines separated with #13 symbol }

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3663: function GetLineByPos(const S: string; const Pos: Integer): Integer;
3664: { GetXYByPos is same to previous function, but returns X position in line too}
3665: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
3666: { ReplaceString searches for all substrings, OldPattern,in a string, S, replaces them with NewPattern }
3667: function ReplaceString(S: string; const OldPattern, NewPattern: string): string;
3668: { ConcatSep concatenate S and S2 strings with Separator. if S = '', separator don't included }
3669: function ConcatSep(const S, S2, Separator: string): string;
3670: { ConcatLeftSep is same to previous function, but strings concatenate right to left }
3671: function ConcatLeftSep(const S, S2, Separator: string): string;
3672: { MinimizeString truncs long string, S, and appends '...' symbols, if Length of S is more than MaxLen }
3673: function MinimizeString(const S: string; const MaxLen: Integer): string;
3674: { Next 4 function for russian chars transliterating.
3675:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes works sucks }
3676: procedure Dos2Win(var S: string);
3677: procedure Win2Dos(var S: string);
3678: function Dos2WinRes(const S: string): string;
3679: function Win2DOSRes(const S: string): string;
3680: function Win2Koi(const S: string): string;
3681: { Spaces returns string consists on N space chars }
3682: function Spaces(const N: Integer): string;
3683: { AddSpaces add spaces to string, S, if it Length is smaller than N }
3684: function AddSpaces(const S: string; const N: Integer): string;
3685: { function LastDate for russian users only } { returns date relative to current date: '' }
3686: function LastDate(const Dat: TDateTime): string;
3687: { CurrencyToStr format currency, Cur, using ffCurrency float format}
3688: function CurrencyToStr(const Cur: currency): string;
3689: { Cmp compares two strings and returns True if they are equal. Case-insensitive.}
3690: function Cmp(const S1, S2: string): Boolean;
3691: { StringCat add S2 string to S1 and returns this string }
3692: function StringCat(var S1: string; S2: string): string;
3693: { HasChar returns True, if Char, Ch, contains in string, S }
3694: function HasChar(const Ch: Char; const S: string): Boolean;
3695: function HasAnyChar(const Chars: string; const S: string): Boolean;
3696: function CharInSet(const Ch: Char; const SetOfChar: TSetOfChar): Boolean;
3697: function CountOfChar(const Ch: Char; const S: string): Integer;
3698: function DefStr(const S: string; Default: string): string;
3699: {**** files routines}
3700: { GetWinDir returns Windows folder name }
3701: function GetWinDir: TFileName;
3702: function GetSysDir: String;
3703: { GetTempDir returns Windows temporary folder name }
3704: function GetTempDir: string;
3705: { GetTempFileName returns temporary file name on drive, there FileName is placed }
3706: function GenTempFileName(FileName: string): string;
3707: { GenTempFileNameExt same to previous function, but returning filename has given extension, FileExt }
3708: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
3709: { ClearDir clears folder Dir }
3710: function ClearDir(const Dir: string): Boolean;
3711: { DeleteDir clears and than delete folder Dir }
3712: function DeleteDir(const Dir: string): Boolean;
3713: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
3714: function FileEquMask(FileName, Mask: TFileName): Boolean;
3715: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
3716:   Masks must be separated with comma (',') }
3717: function FileEquMasks(FileName, Masks: TFileName): Boolean;
3718: procedure DeleteFiles(const Folder: TFileName; const Masks: string);
3719: { LZFileExpand expand file, FileSource into FileDest.File must be compressed,using MS Compress program }
3720: function LZFileExpand(const FileSource, FileDest: string): Boolean;
3721: { FileGetInfo fills SearchRec record for specified file attributes}
3722: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
3723: { HasSubFolder returns True, if folder APath contains other folders }
3724: function HasSubFolder(APath: TFileName): Boolean;
3725: { IsEmptyFolder returns True, if there are no files or folders in given folder, APPath}
3726: function IsEmptyFolder(APath: TFileName): Boolean;
3727: { AddSlash add slash Char to Dir parameter, if needed }
3728: procedure AddSlash(var Dir: TFileName);
3729: { AddSlash returns string with added slash Char to Dir parameter, if needed }
3730: function AddSlash2(const Dir: TFileName): string;
3731: { AddPath returns FileName with Path, if FileName not contain any path }
3732: function AddPath(const FileName, Path: TFileName): TFileName;
3733: function AddPaths(const PathList, Path: string): string;
3734: function ParentPath(const Path: TFileName): TFileName;
3735: function FindInPath(const FileName, PathList: string): TFileName;
3736: function FindinPaths(const fileName, paths: String): String;
3737: {$IFDEF BCB1}
3738: { BrowseForFolder displays Browse For Folder dialog }
3739: function BrowseForFolder(const Handle: HWND; const Title: string; var Folder: string): Boolean;
3740: {$ENDIF BCB1}
3741: Function BrowseForFolder(const ATitle: string; AllowCreate : Boolean; var ADirectory : string;
AHelpContext : THelpContext) : Boolean;
3742: Function BrowseForComputer(const ATitle : string; AllowCreate : Boolean; var ADirectory : string;
AHelpContext : THelpContext) : Boolean;
3743: Function BrowseDirectory(var AFolderName:string;const DlgText:string;AHelpContext:THelpContext):Boolean;
3744: Function BrowseComputer(var AComputerName:string;const DlgText:string;AHelpContext:THelpContext):Boolean;
3745:
3746: { DeleteReadOnlyFile clears R/O file attribute and delete file }
3747: function DeleteReadOnlyFile(const FileName: TFileName): Boolean;
3748: { HasParam returns True, if program running with specified parameter, Param }
3749: function HasParam(const Param: string): Boolean;

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3750: function HasSwitch(const Param: string): Boolean;
3751: function Switch(const Param: string): string;
3752: { ExePath returns ExtractFilePath(ParamStr(0)) }
3753: function ExePath: TFileName;
3754: function CopyDir(const SourceDir, DestDir: TFileName): Boolean;
3755: function FileTimeToDateTime(const FT: TFileTime): TDateTime;
3756: function MakeValidFileName(const FileName: TFileName; const ReplaceBadChar: Char): TFileName;
3757: {**** Graphic routines }
3758: { TTFontSelected returns True, if True Type font is selected in specified device context }
3759: function TTFontSelected(const DC: HDC): Boolean;
3760: { TrueInflateRect inflates rect in other method, than InflateRect API function }
3761: function TrueInflateRect(const R: TRect; const I: Integer): TRect;
3762: {**** Windows routines }
3763: { SetWindowTop put window to top without recreating window }
3764: procedure SetWindowTop(const Handle: HWND; const Top: Boolean);
3765: {**** other routines }
3766: { KeyPressed returns True, if Key VK is now pressed }
3767: function KeyPressed(VK: Integer): Boolean;
3768: procedure SwapInt(var Int1, Int2: Integer);
3769: function IntPower(Base, Exponent: Integer): Integer;
3770: function ChangeTopException(E: TObject): TObject;
3771: function StrToBool(const S: string): Boolean;
3772: {$IFDEF COMPILER3_UP}
3773: { AnsiStrLIComp compares S1 to S2, without case-sensitivity, up to a maximum
3774:   Length of MaxLen bytes. The compare operation is controlled by the
3775:   current Windows locale. The return value is the same as for CompareStr. }
3776: function AnsiStrLIComp(S1, S2: PChar; MaxLen: Cardinal): Integer;
3777: function AnsiStrICmp(S1, S2: PChar): Integer;
3778: {$ENDIF}
3779: function Var2Type(V: Variant; const VarType: Integer): Variant;
3780: function VarToInt(V: Variant): Integer;
3781: function VarToFloat(V: Variant): Double;
3782: { following functions are not documented because they are don't work properly , so don't use them }
3783: function ReplaceSokr1(S: string; const Word, Frase: string): string;
3784: { ReplaceSokr1 is full equal to ReplaceString function - only for compatibility - don't use }
3785: { GetSubStr is full equal to SubStr function - only for compatibility - don't use }
3786: function GetSubStr(const S: string; const Index: Integer; const Separator: Char): string;
3787: function GetParameter: string;
3788: function GetLongFileName(FileName: string): string;
3789: {* from FileCtrl}
3790: function DirectoryExists(const Name: string): Boolean;
3791: procedure ForceDirectories(Dir: string);
3792: {# from FileCtrl}
3793: function FileNewExt(const FileName, NewExt: TFileName): TFileName;
3794: function GetComputerID: string;
3795: function GetComputerName: string;
3796: {**** string routines }
3797: { ReplaceAllSokr searches for all substrings, Words,in a string, S, and replaces them with Frases with the
3798:   same Index.Also see RAUtilsW.ReplaceSokr1 function }
3799: function ReplaceAllSokr(S: string; Words, Frases: TStrings): string;
3800: { ReplaceSokr searches the Word in a string, S, on PosBeg position,
3801:   in the list, Words, and if founds, replaces this Word with string from another list, Frases, with the
3802:   same Index, and then update NewSelStart variable }
3803: function ReplaceSokr(S:string;PosBeg,Len:Integer;Words,Frases:TStrings;var NewSelStart:Integer): string;
3804: { CountOfLines calculates the lines count in a string,each line separated from another with CrLf sequence }
3805: function CountOfLines(const S: string): Integer;
3806: { DeleteEmptyLines deletes all empty lines from strings, Ss. Lines contained only spaces also deletes. }
3807: procedure DeleteEmptyLines(Ss: TStrings);
3808: { SQLAddWhere addes or modifies existing where-statement, where, to the strings, SQL.
3809:   Note: If strings SQL already contains where-statement, it must be started on begining of any line }
3810: procedure SQLAddWhere(SQL: TStrings; const Where: string);
3811: { ResSaveToFile save resource named as Name with Typ type into file FileName.
3812:   Resource can be compressed using MS Compress program}
3813: function ResSaveToFile(const Typ,Name: string; const Compressed:Boolean; const FileName: string): Boolean;
3814: function ResSaveToFileEx(Inst:HINST;Typ,Name:PChar;const Compressed:Bool;const FileName:string): Bool;
3815: function ResSaveToString(Instance: HINST; const Typ, Name: string; var S: string): Boolean;
3816: function ExecuteJ(const CommandLine, WorkingDirectory: string): Integer;
3817: { IniReadSection read section, Section, from ini-file,
3818:   IniFileName, into strings, Ss.This function reads ALL strings from specified section.
3819:   Note: TIniFile.ReadSection function reads only strings with '=' symbol.}
3820: function IniReadSection(const IniFileName: TFileName; const Section: string; Ss: TStrings): Boolean;
3821: { LoadTextFile load text file, FileName, into string }
3822: function LoadTextFile(const FileName: TFileName): string;
3823: procedure SaveTextFile(const FileName: TFileName; const Source: string);
3824: { ReadFolder reads files list from disk folder, Folder, that are equal Mask, into strings, FileList}
3825: function ReadFolder(const Folder, Mask: TFileName; FileList: TStrings): Integer;
3826: function ReadFolders(const Folder: TFileName; FolderList: TStrings): Integer;
3827: {$IFDEF COMPILER3_UP}
3828: { TargetFileName - if FileName is ShortCut returns filename ShortCut linked to }
3829: function TargetFileName(const FileName: TFileName): TFileName;
3830: { return filename ShortCut linked to }
3831: function ResolveLink(const hWnd: HWND; const LinkFile: TFileName; var FileName: TFileName): HRESULT;
3832: {$ENDIF COMPILER3_UP}
3833: {**** Graphic routines - }
3834: { LoadIcoToImage loads two icons from resource named NameRes,into two image lists ALarge and ASmall}
3835: procedure LoadIcoToImage(ALarge, ASmall: TImageList; const NameRes: string);
3836: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }

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3837: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
3838: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
3839: function RATextOutEx(Canvas:TCanvas; const R,RClip:TRect;const S: string;const CalcHeight:Boolean):Integer;
3840: { RATextCalcHeight calculate needed height to correct output, using RATextOut or RATextOutEx functions }
3841: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
3842: { Cinema draws some visual effect }
3843: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
3844: { Roughed fills rect with special 3D pattern }
3845: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
3846: { 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 }
3847: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
3848: { TextWidth calculate text for writing using standard desktop font }
3849: function TextWidth(AString: string): Integer;
3850: { DefineCursor load cursor from resource, and return available cursor number, assigned to it }
3851: function DefineCursor(Identifier: PChar): TCursor;
3852: {**** other routines - }
3853: { FindFormByClass returns first form specified class, FormClass, owned by Application global variable }
3854: function FindFormByClass(FormClass: TFormClass): TForm;
3855: function FindFormByClassName(FormClassName: string): TForm;
3856: { FindByTag returns the control with specified class, ComponentClass, from WinControl.Controls property,
  having Tag property value, equaled to Tag parameter }
3857: function FindByTag(WinControl:TWinControl;ComponentClass:TComponentClass;const Tag:Integer):TComponent;
3858: { ControlAtPos2 equal to TWInControl.ControlAtPos function, but works better }
3860: function ControlAtPos2(Parent: TWinControl; X, Y: Integer): TControl;
3861: { RBTAG searches WinControl.Controls for checked RadioButton and returns its Tag property value }
3862: function RBTAG(Parent: TWinControl): Integer;
3863: { AppMinimized returns True, if Application is minimized }
3864: function AppMinimized: Boolean;
3865: { MessageBox is Application.MessageBox with string (not PChar) parameters.
  if Caption parameter = '', it replaced with Application.Title }
3867: function MessageBoxJ(const Msg: string; Caption: string;const Flags: Integer): Integer;
3868: function MsgDlg2(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; HelpContext: Integer; Control: TWinControl): Integer;
3870: function MsgDlgDef(const Msg, ACaption: string; DlgType: TMsgDlgType;
  Buttons: TMsgDlgButtons; DefButton:TMsgDlgBtn; HelpContext: Integer;Control: TWinControl): Integer;
3872: { Delay stop program execution to MSec msec }
3873: procedure Delay(MSec: Longword);
3874: procedure CenterHor(Parent: TControl; MinLeft: Integer; Controls: array of TControl);
3875: procedure EnableControls(Control: TWinControl; const Enable: Boolean);
3876: procedure EnableMenuItem(MenuItem: TMenuItem; const Tag: Integer; const Enable: Boolean);
3877: procedure ExpandWidth(Parent: TControl; MinWidth: Integer; Controls: array of TControl);
3878: function PanelBorder(Panel: TCustomPanel): Integer;
3879: function Pixels(Control: TControl; APixels: Integer): Integer;
3880: procedure SetChildPropOrd(Owner: TComponent; PropName: string; Value: Longint);
3881: procedure Error(const Msg: string);
3882: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
3884: {ex. Text parameter:'Item 1 <b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green <c:blue>blue</i>'}
3885: function ItemHtDraw(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): string;
3887: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;const State: TOwnerDrawState; const Text: string;
  const HideSelColor: Boolean): Integer;
3889: function ItemHtPlain(const Text: string): string;
3890: { ClearList - clears list of TObject }
3891: procedure ClearList(List: TList);
3892: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
3893: procedure ClipBoardToMemStream(MemStream: TMemoryStream; const Format: Word);
3894: { RTTI support }
3895: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
3896: function GetPropStr(Obj: TObject; const PropName: string): string;
3897: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
3898: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
3899: procedure PrepareIniSection(SS: TStrings);
3900: { following functions are not documented because they are don't work properly, so don't use them }
3901: {$IFDEF COMPILER2}
3902: function CompareMem(P1, P2: Pointer; Length: Integer): Boolean; assembler;
3903: {$ENDIF}
3904:
3905: procedure SIRegister_JvBoxProcs(CL: TPSPascalCompiler);
3906: begin
3907: Procedure BoxMoveSelectedItems( SrcList, DstList : TWinControl)
3908: Procedure BoxMoveAllItems( SrcList, DstList : TWinControl)
3909: Procedure BoxDragOver(List:TWinControl;Source:TObject;X,Y:Int;State:TDragState;var
  Accept:Bool;Sorted:Bool;
3910: Procedure BoxMoveFocusedItem( List : TWinControl; DstIndex : Integer)
3911: Procedure BoxMoveSelected( List : TWinControl; Items : TStrings)
3912: Procedure BoxSetItem( List : TWinControl; Index : Integer)
3913: Function BoxGetFirstSelection( List : TWinControl) : Integer
3914: Function BoxCanDropItem( List : TWinControl; X, Y : Integer; var DragIndex : Integer) : Boolean
3915: end;
3916:
3917: procedure SIRegister_JvCsvParse(CL: TPSPascalCompiler);
3918: begin
3919: Const ('MaxInitStrNum','LongInt' ( 9));
3920: Function JvAnsiStrSplit( const InString : AnsiString; const SplitChar, QuoteChar:AnsiChar; var OutStrings
  : array of AnsiString; MaxSplit : Integer) : Integer
3921: Function JvStrSplit( const InString : string; const SplitChar, QuoteChar : Char; var OutStrings : array of
  string; MaxSplit : Integer) : Integer

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

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4010: function DelESpace(const S: string): string;
4011: { DelESpace trims trailing spaces from the given string. }
4012: function DelRSpace(const S: string): string;
4013: { DelRSpace trims leading and trailing spaces from the given string. }
4014: function DelSpace1(const S: string): string;
4015: { DelSpace1 return a string with all non-single white spaces removed. }
4016: function Tab2Space(const S: string; Numb: Byte): string;
4017: { Tab2Space converts any tabulation character in the given string to the Numb spaces characters. }
4018: function NPos(const C: string; S: string; N: Integer): Integer;
4019: { NPos searches for a N-th position of substring C in a given string. }
4020: function MakeStr(C: Char; N: Integer): string;
4021: function MS(C: Char; N: Integer): string;
4022: { MakeStr return a string of length N filled with character C. }
4023: function AddChar(C: Char; const S: string; N: Integer): string;
4024: { AddChar return a string left-padded to length N with characters c. }
4025: function AddCharR(C: Char; const S: string; N: Integer): string;
4026: { AddCharR return a string right-padded to length N with characters C. }
4027: function LeftStr(const S: string; N: Integer): string;
4028: { LeftStr return a string right-padded to length N with blanks. }
4029: function RightStr(const S: string; N: Integer): string;
4030: { RightStr return a string left-padded to length N with blanks. }
4031: function CenterStr(const S: string; Len: Integer): string;
4032: { CenterStr centers the characters in the string based upon the Len specified. }
4033: function CompStr(const S1, S2: string): Integer;
4034: { CompStr compares S1 to S2, case-sensitivity. return val is -1 if S1 < S2,0 if S1 = S2,or 1 if S1>S2. }
4035: function CompText(const S1, S2: string): Integer;
4036: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4037: function Copy2Symb(const S: string; Symb: Char): string;
4038: { Copy2Symb returns a substring of a string S from beginning to first character Symb. }
4039: function Copy2SymbDel(var S: string; Symb: Char): string;
4040: { Copy2SymbDel returns a substr of string S from to first character Symb and removes substring from S. }
4041: function Copy2Space(const S: string): string;
4042: { Copy2Space returns a substring of a string S from beginning to first white space. }
4043: function Copy2SpaceDel(var S: string): string;
4044: { Copy2SpaceDel returns a substring of a string S from begining to first
4045:   white space and removes this substring from S. }
4046: function AnsiProperCase(const S: string; const WordDelims: TCharSet): string;
4047: { Returns string, with the first letter of each word in uppercase,
4048:   all other letters in lowercase. Words are delimited by WordDelims. }
4049: function WordCount(const S: string; const WordDelims: TCharSet): Integer;
4050: { WordCount given a set of word delimiters, returns number of words in S. }
4051: function WordPosition(const N: Integer; const S: string; const WordDelims: TCharSet): Integer;
4052: { Given a set of word delimiters, returns start position of N'th word in S. }
4053: function ExtractWord(N: Integer; const S: string; const WordDelims: TCharSet): string;
4054: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TCharSet; var Pos: Integer): string;
4055: function ExtractDelimited(N: Integer; const S: string; const Delims: TCharSet): string;
4056: { ExtractWord, ExtractWordPos and ExtractDelimited given a set of word
4057:   delimiters, return the N'th word in S. }
4058: function ExtractSubstr(const S: string; var Pos: Integer; const Delims: TCharSet): string;
4059: { ExtractSubstr given set of word delimiters, returns the substring from S,that started from position Pos.}
4060: function IsWordPresent(const W, S: string; const WordDelims: TCharSet): Boolean;
4061: { IsWordPresent given a set of word delimiters, returns True if word W is present in string S. }
4062: function QuotedString(const S: string; Quote: Char): string;
4063: { QuotedString returns the given string as a quoted string, using the provided Quote character. }
4064: function ExtractQuotedString(const S: string; Quote: Char): string;
4065: { ExtractQuotedString removes the Quote characters from the beginning and end of a quoted string,
4066:   and reduces pairs of Quote characters within the quoted string to a single character. }
4067: function FindPart(const HelpWilds, InputStr: string): Integer;
4068: { FindPart compares a string with '?' and another, returns the position of HelpWilds in InputStr. }
4069: function IsWild(InputStr, Wilds: string; IgnoreCase: Boolean): Boolean;
4070: { IsWild compares InputString with WildCard string and returns True if corresponds. }
4071: function XorString(const Key, Src: ShortString): ShortString;
4072: function XorEncode(const Key, Source: string): string;
4073: function XorDecode(const Key, Source: string): string;
4074: { ** Command line routines ** }
4075: {$IFNDEF COMPILER4_UP}
4076: function FindCmdLineSwitch(const Switch: string; SwitchChars: TCharSet; IgnoreCase: Boolean): Boolean;
4077: {$ENDIF}
4078: function GetCmdLineArg(const Switch: string; SwitchChars: TCharSet): string;
4079: { ** Numeric string handling routines ** }
4080: function Numb2USA(const S: string): string;
4081: { Numb2USA converts numeric string S to USA-format. }
4082: function Dec2Hex(N: Longint; A: Byte): string;
4083: function D2H(N: Longint; A: Byte): string;
4084: { Dec2Hex converts the given value to a hexadecimal string representation
4085:   with the minimum number of digits (A) specified. }
4086: function Hex2Dec(const S: string): Longint;
4087: function H2D(const S: string): Longint;
4088: { Hex2Dec converts the given hexadecimal string to the corresponding integer value. }
4089: function Dec2Numb(N: Longint; A, B: Byte): string;
4090: { Dec2Numb converts the given value to a string representation with the
4091:   base equal to B and with the minimum number of digits (A) specified. }
4092: function Numb2Dec(S: string; B: Byte): Longint;
4093: { Numb2Dec converts the given B-based numeric string to the corresponding integer value. }
4094: function IntToBin(Value: Longint; Digits, Spaces: Integer): string;
4095: { IntToBin converts given value to a bin string representation with min number of digits specified. }
4096: function IntToRoman(Value: Longint): string;
4097: { IntToRoman converts the given value to a roman numeric string representation. }
4098: function RomanToInt(const S: string): Longint;

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4099: { RomanToInt converts the given string to an integer value. If the string
4100:   doesn't contain a valid roman numeric value, the 0 value is returned. }
4101: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
4102: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
4103: ***** JvFileUtil;*****
4104: procedure CopyFileJ(const FileName, DestName: string; ProgressControl: TControl);
4105: procedure CopyFileEx(const FileName, DestName:string;OverwriteReadOnly,ShellDialog:Boolean;ProgressControl: TControl);
4106: procedure MoveFile(const FileName, DestName: TFileName);
4107: procedure MoveFileEx(const FileName, DestName: TFileName; ShellDialog: Boolean);
4108: {$IFDEF COMPILER4_UP}
4109: function GetFileSize(const FileName: string): Int64;
4110: {$ELSE}
4111: function GetFileSize(const FileName: string): Longint;
4112: {$ENDIF}
4113: function FileDateTime(const FileName: string): TDateTime;
4114: function HasAttr(const FileName: string; Attr: Integer): Boolean;
4115: function DeleteFiles(const FileMask: string): Boolean;
4116: function DeleteFilesEx(const FileMasks: array of string): Boolean;
4117: function ClearDir(const Path: string; Delete: Boolean): Boolean;
4118: function NormalDir(const DirName: string): string;
4119: function RemoveBackSlash(const DirName: string): string;
4120: function ValidFileName(const FileName: string): Boolean;
4121: function DirExists(Name: string): Boolean;
4122: procedure ForceDirectories(Dir: string);
4123: function FileLock(Handle: Integer; Offset, LockSize: Longint): Integer;
4124: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4125: {$IFDEF COMPILER4_UP}
4126: function FileLock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4127: {$ENDIF}
4128: function FileUnlock(Handle: Integer; Offset, LockSize: Longint): Integer;
4129: {$IFDEF COMPILER4_UP} overload; {$ENDIF}
4130: {$IFDEF COMPILER4_UP}
4131: function FileUnlock(Handle: Integer; Offset, LockSize: Int64): Integer; overload;
4132: {$ENDIF}
4133: function GetTempDir: string;
4134: function GetWindowsDir: string;
4135: function GetSystemDir: string;
4136: function BrowseDirectory(var AFolderName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4137: {$IFDEF WIN32}
4138: function BrowseComputer(var ComputerName:string; const DlgText:string; AHelpContext:THelpContext): Boolean;
4139: function ShortToLongFileName(const ShortName: string): string;
4140: function ShortToLongPath(const ShortName: string): string;
4141: function LongToShortFileName(const LongName: string): string;
4142: function LongToShortPath(const LongName: string): string;
4143: procedure CreateFileLink(const FileName, DisplayName: string; Folder: Integer);
4144: procedure DeleteFileLink(const DisplayName: string; Folder: Integer);
4145: {$ENDIF WIN32}
4146: {$IFDEF COMPILER3_UP}
4147: function IsPathDelimiter(const S: string; Index: Integer): Boolean;
4148: {$ENDIF}
4149: Function CreateCalculatorForm( AOwner : TComponent; AHelpContext : THelpContext ) : TJvCalculatorForm;
4150: Function CreatePopupCalculator( AOwner : TComponent; ABiDiMode : TBiDiMode ) : TWinControl;
4151: Function CreatePopupCalculator( AOwner : TComponent ) : TWinControl;
4152: Procedure SetupPopupCalculator( PopupCalc : TWinControl; APrecision : Byte; ABeepOnError : Boolean );
4153: //*****procedure SIRegister_VarHlpr(CL: TPSPPascalCompiler);
4154: Procedure VariantClear( var V : Variant );
4155: Procedure VariantArrayRedim( var V : Variant; High : Integer );
4156: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer );
4157: Procedure VariantCpy( const src : Variant; var dst : Variant );
4158: Procedure VariantAdd( const src : Variant; var dst : Variant );
4159: Procedure VariantSub( const src : Variant; var dst : Variant );
4160: Procedure VariantMul( const src : Variant; var dst : Variant );
4161: Procedure VariantDiv( const src : Variant; var dst : Variant );
4162: Procedure VariantMod( const src : Variant; var dst : Variant );
4163: Procedure VariantAnd( const src : Variant; var dst : Variant );
4164: Procedure VariantOr( const src : Variant; var dst : Variant );
4165: Procedure VariantXor( const src : Variant; var dst : Variant );
4166: Procedure VariantShl( const src : Variant; var dst : Variant );
4167: Procedure VariantShr( const src : Variant; var dst : Variant );
4168: Function VariantAdd2( const V1 : Variant; const V2 : Variant ) : Variant;
4169: Function VariantSub2( const V1 : Variant; const V2 : Variant ) : Variant;
4170: Function VariantMul2( const V1 : Variant; const V2 : Variant ) : Variant;
4171: Function VariantDiv2( const V1 : Variant; const V2 : Variant ) : Variant;
4172: Function VariantMod2( const V1 : Variant; const V2 : Variant ) : Variant;
4173: Function VariantAnd2( const V1 : Variant; const V2 : Variant ) : Variant;
4174: Function VariantOr2( const V1 : Variant; const V2 : Variant ) : Variant;
4175: Function VariantXor2( const V1 : Variant; const V2 : Variant ) : Variant;
4176: Function VariantShl2( const V1 : Variant; const V2 : Variant ) : Variant;
4177: Function VariantShr2( const V1 : Variant; const V2 : Variant ) : Variant;
4178: Function VariantNot( const V1 : Variant ) : Variant;
4179: Function VariantNeg( const V1 : Variant ) : Variant;
4180: Function VariantGetElement( const V : Variant; il : integer ) : Variant;
4181: Function VariantGetElement1( const V : Variant; il, i2 : integer ) : Variant;
4182: Function VariantGetElement2( const V : Variant; il, i2, i3 : integer ) : Variant;
4183: Function VariantGetElement3( const V : Variant; il, i2, i3, i4 : integer ) : Variant;
4184: Function VariantGetElement4( const V : Variant; il, i2, i3, i4, i5 : integer ) : Variant;
4185: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer );

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4187: Procedure VariantPutElement1( var V : Variant; const data : Variant; i1, i2 : integer);
4188: Procedure VariantPutElement2( var V : Variant; const data : Variant; i1, i2, i3 : integer);
4189: Procedure VariantPutElement3( var V : Variant; const data : Variant; i1, i2, i3, i4 : integer);
4190: Procedure VariantPutElement4( var V : Variant; const data : Variant; i1, i2, i3, i4, i5 : integer);
4191: end;
4192:
4193: *****unit uPSI_JvgUtils;*****
4194: function IsEven(I: Integer): Boolean;
4195: function InchesToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4196: function CentimetersToPixels(DC: HDC; Value: Single; IsHorizontal: Boolean): Integer;
4197: procedure SwapInt(var I1, I2: Integer);
4198: function Spaces(Count: Integer): string;
4199: function DupStr(const Str: string; Count: Integer): string;
4200: function DupChar(C: Char; Count: Integer): string;
4201: procedure Msg(const AMsg: string);
4202: function RectW(R: TRect): Integer;
4203: function RectH(R: TRect): Integer;
4204: function IncColor(AColor: Longint; AOffset: Byte): Longint;
4205: function DecColor(AColor: Longint; AOffset: Byte): Longint;
4206: function IsItAFilledBitmap(Bmp: TBitmap): Boolean;
4207: procedure DrawTextInRectWithAlign(DC: HDC; R: TRect; const Text: string;
4208:   HAlign: TglHorAlign; VAlign: TglVertAlign; Style: TglTextStyle; Fnt: TFont; Flags: UINT);
4209: procedure DrawTextInRect(DC: HDC; R: TRect; const Text:string;Style:TglTextStyle;Fnt:TFont;Flags: UINT);
4210: procedure ExtTextOutExt(DC: HDC; X, Y: Integer; R: TRect; const Text: string;
4211:   Style: TglTextStyle; ADelineted, ASupress3D: Boolean; FontColor, DelinColor, HighlightColor, ShadowColor:
4212:   TColor; Illumination: TJvgIllumination; Gradient: TJvgGradient; Font: TFont);
4213: procedure DrawBox(DC:HDC; var R:TRect; Style:TglBoxStyle;BackgrColor: Longint; ATransparent: Boolean);
4214: function DrawBoxEx(DC: HDC; ARect: TRect; Borders: TglSides;
4215:   BevelInner, BevelOuter: TPanelBevel; Bold:Boolean; BackgrColor: Longint; ATransparent: Boolean): TRect;
4216: procedure ChangeBitmapColor(Bitmap: TBitmap; FromColor, ToColor: TColor);
4217: procedure DrawBitmapExt(DC: HDC; { DC - background & result}
4218:   Sourcebitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4219:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4220:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4221: procedure CreateBitmapExt(DC: HDC; { DC - background & result}
4222:   Sourcebitmap: TBitmap; R: TRect; X, Y: Integer; //...X,Y _in_ rect!
4223:   BitmapOption: TglWallpaperOption; DrawState: TglDrawState;
4224:   ATransparent: Boolean; TransparentColor: TColor; DisabledMaskColor: TColor);
4225: procedure BringParentWindowToTop(Wnd: TWInControl);
4226: function GetParentForm(Control: TControl): TForm;
4227: procedure GetWindowImageFrom(Control: TWInControl; X,Y:Integer;ADrawSelf,ADrawChildWindows:Boolean;DC:HDC);
4228: procedure GetWindowImage(Control: TWInControl; ADrawSelf, ADrawChildWindows: Boolean; DC: HDC);
4229: procedure GetParentImageRect(Control: TControl; Rect: TRect; DC: HDC);
4230: function CreateRotatedFont(F: TFont; Escapement: Integer): HFONT;
4231: function FindMainWindow(const AWndClass, AWndTitle: string): THandle;
4232: procedure CalcShadowAndHighlightColors(BaseColor: TColor; Colors: TJvgLabelColors);
4233: function CalcMathString(AExpression: string): Single;
4234: function IIF(AExpression: Boolean; IfTrue, IfFalse: Variant): Variant; overload;
4235: function IIF(AExpression: Boolean; const IfTrue, IfFalse: string): string; overload;
4236: function GetTransparentColor(Bitmap: TBitmap; AutoTrColor: TglAutoTransparentColor): TColor;
4237: procedure TypeStringOnKeyboard(const S: string);
4238: function NextStringGridCell(Grid: TStringGrid): Boolean;
4239: procedure DrawTextExtAligned(Canvas: TCanvas; const
4240:   Text:string;R:TRect;Alignment:TglAlignment;WordWrap:Boolean);
4241: procedure LoadComponentFromTextFile(Component: TComponent; const FileName: string);
4242: function SaveComponentToTextFile(Component: TComponent; const FileName: string);
4243: function ComponentToString(Component: TComponent): string;
4244: function StringToComponent(Component: TComponent; const Value: string);
4245: function PlayWaveResource(const ResName: string): Boolean;
4246: function UserName: string;
4247: function ComputerName: string;
4248: function CreateIniFileName: string;
4249: function ExpandString(const Str: string; Len: Integer): string;
4250: function Transliterate(const Str: string; RusToLat: Boolean): string;
4251: function IsSmallFonts: Boolean;
4252: function SystemColorDepth: Integer;
4253: function GetFileTypeJ(const FileName: string): TglFileType;
4254: function GetFileType(hFile : THandle) : DWORD';
4255: function FindControlAtPt(Control: TWInControl; Pt: TPoint; MinClass: TClass): TControl;
4256: function StrPosExt(const Str1, Str2: PChar; Str2Len: DWORD): PChar;
4257: { ****Utility routines of unit classes}
4258: function LineStart(Buffer, BufPos: PChar): PChar;
4259: function ExtractStrings(Separators,WhiteSpace: TSysCharSet; Content: PChar;'+'
4260:   'Strings: TStrings): Integer
4261: function TestStreamFormat(Stream : TStream) : TStreamOriginalFormat;
4262: procedure RegisterClass(AClass : TPersistentClass);
4263: procedure RegisterClasses(AClasses : array of TPersistentClass);
4264: procedure RegisterClassAlias(AClass : TPersistentClass; const Alias : string);
4265: procedure UnRegisterClass(AClass : TPersistentClass);
4266: procedure UnRegisterClasses(AClasses : array of TPersistentClass);
4267: procedure UnRegisterModuleClasses(Module : HMODULE);
4268: function FindGlobalComponent(const Name : string) : TComponent;
4269: function IsUniqueGlobalComponentName(const Name : string) : Boolean;
4270: function InitInheritedComponent(Instance : TComponent; RootAncestor : TClass) : Boolean;
4271: function InitComponentRes(const ResName : string; Instance : TComponent) : Boolean;
4272: function ReadComponentRes(const ResName : string; Instance : TComponent) : TComponent;
4273: function ReadComponentResEx(HInstance : THandle; const ResName : string) : TComponent;

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

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4363: {selects akey=avalue from Src and returns recordset in Dst}
4364: procedure ListFilter(Src: TStringList; const AKey, AValue: string);
4365: {filters Src for akey=avalue}
4366: procedure ListOrderBy(Src: TStringList; const AKey: string; Numeric: Boolean);
4367: {orders a tagged Src list by akey}
4368: function PosStr(const FindString, SourceString: string;
4369:   StartPos: Integer = 1): Integer;
4370: { PosStr searches the first occurrence of a substring FindString in a string
4371:   given by SourceString with case sensitivity (upper and lower case characters
4372:   are differed). This function returns the index value of the first character
4373:   of a specified substring from which it occurs in a given string starting with
4374:   StartPos character index. If a specified substring is not found Q_PosStr
4375:   returns zero. author of algorithm is Peter Morris (UK) (Faststrings unit from www.torry.ru). }
4376: function PosStrLast(const FindString, SourceString: string): Integer;
4377: {finds the last occurrence}
4378: function LastPosChar(const FindChar: Char; SourceString: string): Integer;
4379: function PosText(const FindString, SourceString: string; StartPos: Integer = 1): Integer;
4380: { PosText searches the first occurrence of a substring FindString in a string
4381:   given by SourceString without case sensitivity (upper and lower case characters are not differed). This
4382:   function returns the index value of the first character of a specified substring from which it occurs in a
4383:   given string starting with Start
4382: function PosTextLast(const FindString, SourceString: string): Integer;
4383: {finds the last occurrence}
4384: function NameValuesToXML(const AText: string): string;
4385: {$IFDEF MSWINDOWS}
4386: procedure LoadResourceFile(AFile: string; MemStream: TMemoryStream);
4387: {$ENDIF MSWINDOWS}
4388: procedure DirFiles(const ADir, AMask: string; AFileList: TStringList);
4389: procedure RecurseDirFiles(const ADir: string; var AFileList: TStringList);
4390: procedure RecurseDirProgs(const ADir: string; var AFileList: TStringList);
4391: procedure SaveString(const AFile, AText: string);
4392: procedure SaveStringasFile( const AFile, AText : string)
4393: function LoadStringJ(const AFile: string): string;
4394: Function LoadStringOfFile( const AFile : string) : string
4395: Procedure SaveStringToFile( const AFile, AText : string)
4396: Function LoadStringFromFile( const AFile : string) : string
4397: function HexToColor(const AText: string): TColor;
4398: function UppercaseHTMLTags(const AText: string): string;
4399: function LowercaseHTMLTags(const AText: string): string;
4400: procedure GetHTMLAnchors(const AFile: string; AList: TStringList);
4401: function RelativePath(const ASrc, ADst: string): string;
4402: function GetToken(var Start: Integer; const SourceText: string): string;
4403: function PosNonSpace(Start: Integer; const SourceText: string): Integer;
4404: function PosEscaped(Start: Integer; const SourceText, FindText: string; EscapeChar: Char): Integer;
4405: function DeleteEscaped(const SourceText: string; EscapeChar: Char): string;
4406: function BeginOfAttribute(Start: Integer; const SourceText: string): Integer;
4407: // parses the beginning of an attribute: space + alpha character
4408: function ParseAttribute(var Start:Integer; const SourceText:string; var AName,AValue:string): Boolean;
4409: //parses a name="value" attrib from Start; returns 0 when not found or else the position behind attribute
4410: procedure ParseAttributes(const SourceText: string; Attributes: TStrings);
4411: // parses all name=value attributes to the attributes TStringList
4412: function HasStrValue(const AText, AName: string; var AValue: string): Boolean;
4413: // checks if a name="value" pair exists and returns any value
4414: function GetStrValue(const AText, AName, ADefault: string): string;
4415: // retrieves string value from a line like:
4416: // name="jan verhoeven" email="jan1 dott verhoeven att wxs dott nl"
4417: // returns ADefault when not found
4418: function GetHTMLColorValue(const AText, AName: string; ADefault: TColor): TColor;
4419: // same for a color
4420: function GetIntValue(const AText, AName: string; ADefault: Integer): Integer;
4421: // same for an Integer
4422: function GetFloatValue(const AText, AName: string; ADefault: Extended): Extended;
4423: // same for a float
4424: function GetBoolValue(const AText, AName: string): Boolean;
4425: // same for Boolean but without default
4426: function GetValue(const AText, AName: string): string;
4427: //retrieves string value from a line like: name="jan verhoeven" email="jan1 verhoeven att wxs dott nl"
4428: procedure SetValue(var AText: string; const AName, AValue: string);
4429: // sets a string value in a line
4430: procedure DeleteValue(var AText: string; const AName: string);
4431: // deletes a AName="value" pair from AText
4432: procedure GetNames(AText: string; AList: TStringList);
4433: // get a list of names from a string with name="value" pairs
4434: function GetHTMLColor(AColor: TColor): string;
4435: // converts a color value to the HTML hex value
4436: function BackPosStr(Start: Integer; const FindString, SourceString: string): Integer;
4437: // finds a string backward case sensitive
4438: function BackPostText(Start: Integer; const FindString, SourceString: string): Integer;
4439: // finds a string backward case insensitive
4440: function PosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string);
4441: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4442: // finds a text range, e.g. <TD>....</TD> case sensitive
4443: function PosRangeText(Start: Integer; const HeadString, TailString, SourceString: string);
4444: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4445: // finds a text range, e.g. <TD>....</td> case insensitive
4446: function BackPosRangeStr(Start: Integer; const HeadString, TailString, SourceString: string);
4447: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4448: // finds a text range backward, e.g. <TD>....</TD> case sensitive
4449: function BackPosRangeText(Start: Integer; const HeadString, TailString, SourceString: string);

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4450:  var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4451: // finds a text range backward, e.g. <TD>....</td> case insensitive
4452: function PosTag(Start: Integer; SourceString: string; var RangeBegin: Integer;
4453: var RangeEnd: Integer): Boolean;
4454: // finds a XML tag: <....>
4455: function InnerTag(Start: Integer; const HeadString, TailString, SourceString: string;
4456: var RangeBegin: Integer; var RangeEnd: Integer): Boolean;
4457: // finds the innerText between opening and closing tags
4458: function Easter(NYear: Integer): TDateTime;
4459: // returns the easter date of a year.
4460: function GetWeekNumber(Today: TDateTime): string;
4461: // gets a datecode. Returns year and weeknumber in format: YYWW
4462: function ParseNumber(const S: string): Integer;
4463: // parse number returns the last position, starting from 1
4464: function ParseDate(const S: string): Integer;
4465: // parse a SQL style data string from positions 1,
4466: // starts and ends with #
4467:
4468: *****unit JvJCLUtils;*****
4469:
4470: function VarIsInt(Value: Variant): Boolean;
4471: // VarIsInt returns VarIsOrdinal-[varBoolean]
4472: { PosIdx returns the index of the first appearance of SubStr in Str. The search starts at index "Index". }
4473: function PosIdx(const SubStr, S: string; Index: Integer = 0): Integer;
4474: function PosIdxW(const SubStr, S: WideString; Index: Integer = 0): Integer;
4475: function PosLastCharIdx(Ch: Char; const S: string; Index: Integer = 0): Integer;
4476: { GetWordOnPos returns Word from string, S, on the cursor position, P}
4477: function GetWordOnPos(const S: string; const P: Integer): string;
4478: function GetWordOnPosW(const S: WideString; const P: Integer): WideString;
4479: function GetWordOnPos2(const S: string; P: Integer; var iBeg, iEnd: Integer): string;
4480: function GetWordOnPos2W(const S: WideString; P: Integer; var iBeg, iEnd: Integer): WideString;
4481: { GetWordOnPosEx working like GetWordOnPos function, but
4482:   also returns Word position in iBeg, iEnd variables }
4483: function GetWordOnPosEx(const S: string; const P: Integer; var iBeg, iEnd: Integer): string;
4484: function GetWordOnPosExW(const S: WideString; const P: Integer; var iBeg, iEnd: Integer): WideString;
4485: function GetNextWordPosEx(const Text: string; StartIndex: Integer; var iBeg, iEnd: Integer): string;
4486: function GetNextWordPosExW(const Text: WideString; StartIndex: Integer; var iBeg, iEnd: Integer): WideString;
4487: procedure GetEndPosCaret(const Text: string; CaretX, CaretY: Integer; var X, Y: Integer);
4488: { GetEndPosCaret returns the caret position of the last char. For the position
4489:   after the last char of Text you must add 1 to the returned X value. }
4490: procedure GetEndPosCaretW(const Text: WideString; CaretX, CaretY: Integer; var X, Y: Integer);
4491: { GetEndPosCaret returns the caret position of the last char. For the position
4492:   after the last char of Text you must add 1 to the returned X value. }
4493: { SubStrBySeparator returns substring from string, S, separated with Separator string}
4494: function SubStrBySeparator(const S:string;const Index:Integer;const
        Separator:string;startIndex:Int=1):string;
4495: function SubStrBySeparatorW(const S:WideString;const Index:Int;const
        Separator:WideString;startIndex:Int:WideString;
4496: { SubStrEnd same to previous function but Index numerated from the end of string }
4497: function SubStrEnd(const S: string; const Index: Integer; const Separator: string): string;
4498: { SubWord returns next Word from string, P, and offsets Pointer to the end of Word, P2 }
4499: function SubWord(P: PChar; var P2: PChar): string;
4500: function CurrencyByWord(Value: Currency): string;
4501: { GetLineByPos returns the Line number, there the symbol Pos is pointed. Lines separated with #13 symbol }
4502: function GetLineByPos(const S: string; const Pos: Integer): Integer;
4503: { GetXYByPos is same as GetLineByPos, but returns X position in line as well}
4504: procedure GetXYByPos(const S: string; const Pos: Integer; var X, Y: Integer);
4505: procedure GetXYByPosW(const S: WideString; const Pos: Integer; var X, Y: Integer);
4506: { ReplaceString searches for all substrings, OldPattern,
4507:   in a string, S, and replaces them with NewPattern }
4508: function ReplaceString(S: string; const OldPattern,NewPattern: string; startIndex:Integer = 1):string;
4509: function ReplaceStringW(S: WideString; const OldPattern,NewPattern:
        WideString;startIndex:Integer=1):WideString;
4510: { ConcatSep concatenate S1 and S2 strings with Separator. if S = '' then separator not included }
4511: function ConcatSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
        SUPPORTS_INLINE}
4512: { ConcatLeftSep is same to previous function, but   strings concatenate right to left }
4513: function ConcatLeftSep(const S1, S2, Separator: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF
        SUPPORTS_INLINE}
4514:
4515: { Next 4 function for russian chars transliterating.
4516:   This functions are needed because Oem2Ansi and Ansi2Oem functions sometimes suck }
4517: procedure Dos2Win(var S: AnsiString);
4518: procedure Win2Dos(var S: AnsiString);
4519: function Dos2WinRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4520: function Win2DOSRes(const S: AnsiString): AnsiString; inline; {$ENDIF SUPPORTS_INLINE}
4521: function Win2Koi(const S: AnsiString): AnsiString;
4522: { FillString fills the string Buffer with Count Chars }
4523: procedure FillString(var Buffer: string; Count: Integer; const Value: Char); overload;
4524: procedure FillString(var Buffer: string; startIndex, Count: Integer; const Value: Char); overload;
4525: { MoveString copies Count Chars from Source to Dest }
4526: procedure MoveString(const Source: string; var Dest: string; Count: Integer); {$IFDEF SUPPORTS_INLINE}
        inline; {$ENDIF SUPPORTS_INLINE} overload;
4527: procedure MoveString(const Source: string; SrcStartIdx: Integer; var Dest: string;
        DstStartIdx: Integer;Count: Integer); {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE} overload;
4528: { FillWideChar fills Buffer with Count WideChars (2 Bytes) }
4529: procedure FillWideChar(var Buffer: WideString; Count: Integer; const Value: WideChar);
4530: { MoveWideChar copies Count WideChars from Source to Dest }
4531: procedure MoveWideChar(const Source: string; var Dest: WideString; Count: Integer); {$IFDEF SUPPORTS_INLINE}
        inline; {$ENDIF SUPPORTS_INLINE}

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4533: { FillNativeChar fills Buffer with Count NativeChars }
4534: procedure FillNativeChar(var Buffer; Count: Integer; const Value: Char); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4535: { MoveWideChar copies Count WideChars from Source to Dest }
4536: procedure MoveNativeChar(const Source; var Dest; Count: Integer); // D2009 internal error {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4537: { IsSubString() compares the sub string to the string. Indices are 1th based. }
4538: function IsSubString(const S: string; StartIndex: Integer; const SubStr: string): Boolean;
4539: { Spaces returns string consists on N space chars }
4540: function Spaces(const N: Integer): string;
4541: { AddSpaces adds spaces to string S, if its Length is smaller than N }
4542: function AddSpaces(const S: string; const N: Integer): string;
4543: function SpacesW(const N: Integer): WideString;
4544: function AddSpacesW(const S: WideString; const N: Integer): WideString;
4545: { function LastDateRUS for russian users only }
4546: { returns date relative to current date: 'àâà àÿ àçàä' }
4547: function LastDateRUS(const Dat: TDateTime): string;
4548: { CurrencyToStr format Currency, Cur, using ffcurrency float format }
4549: function CurrencyToStr(const Cur: Currency): string;
4550: { HasChar returns True, if Char, Ch, contains in string, S }
4551: function HasChar(const Ch: Char; const S: string): Boolean;
4552: function HasCharW(const Ch: WideChar; const S: WideString): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4553: function HasAnyChar(const Chars: string; const S: string): Boolean;
4554: {$IFNDEF COMPILER12_UP}
4555: function CharInSet(const Ch: AnsiChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4556: {$ENDIF ~COMPILER12_UP}
4557: function CharInSetW(const Ch: WideChar; const SetOfChar: TSysCharSet): Boolean; inline; {$ENDIF SUPPORTS_INLINE}
4558: function CountOfChar(const Ch: Char; const S: string): Integer;
4559: function DefStr(const S: string; Default: string): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4560: { StrLICompW2 is a faster replacement for JclUnicode.StrLICompW }
4561: function StrLICompW2(S1, S2: PWideChar; MaxLen: Integer): Integer;
4562: function StrPosW(S, SubStr: PWideChar): PWideChar;
4563: function StrLenW(S: PWideChar): Integer;
4564: function TrimW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4565: function TrimLeftW(const S: WideString): WideString; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4566: function TrimRightW(const S: WideString): WideString; inline; {$ENDIF SUPPORTS_INLINE}
4567: TPixelFormat', '(pfDevice, pf1bit, pf4bit, pf8bit, pf24bit)
4568: TMappingMethod', '(mmHistogram, mmQuantize, mmTrunc784, mmTrunc666, mmTripel, mmGrayscale )
4569: Function GetBitmapPixelFormat(Bitmap : TBitmap) : TPixelFormat
4570: Function GetPaletteBitmapFormat(Bitmap : TBitmap) : TPixelFormat
4571: Procedure SetBitmapPixelFormat(Bitmap : TBitmap; PixelFormat: TPixelFormat; Method: TMappingMethod)
4572: Function BitmapToMemoryStream(Bitmap:TBitmap;PixelFormat:TPixelFormat;Method:TMappingMethod):TMemoryStream;
4573: Procedure GrayscaleBitmap(Bitmap : TBitmap)
4574: Function BitmapToMemory(Bitmap : TBitmap; Colors : Integer) : TStream
4575: Procedure SaveBitmapToFile( const Filename: string; Bitmap : TBitmap; Colors : Integer)
4576: Function ScreenPixelFormat : TPixelFormat
4577: Function ScreenColorCount : Integer
4578: Procedure TileImage( Canvas : TCanvas; Rect : TRect; Image : TGraphic)
4579: Function ZoomImage( ImageW, ImageH, MaxW, MaxH : Integer; Stretch : Boolean) : TPoint
4580: // SIRegister_TJvGradient(CL);
4581:
4582: {***** files routines}
4583: procedure SetDelimitedText(List: TStringList; const Text: string; Delimiter: Char);
4584: const
4585: {$IFDEF MSWINDOWS}
4586: DefaultCaseSensitivity = False;
4587: {$ENDIF MSWINDOWS}
4588: {$IFDEF UNIX}
4589: DefaultCaseSensitivity = True;
4590: {$ENDIF UNIX}
4591: { GenTempFileName returns temporary file name on
4592:   drive, there FileName is placed }
4593: function GenTempFileName(FileName: string): string;
4594: { GenTempFileNameExt same to previous function, but
4595:   returning filename has given extension, FileExt }
4596: function GenTempFileNameExt(FileName: string; const FileExt: string): string;
4597: { ClearDir clears folder Dir }
4598: function ClearDir(const Dir: string): Boolean;
4599: { DeleteDir clears and than delete folder Dir }
4600: function DeleteDir(const Dir: string): Boolean;
4601: { FileEquMask returns True if file, FileName, is compatible with given dos file mask, Mask }
4602: function FileEquMask(FileName, Mask: TFileName; CaseSensitive: Boolean=DefaultCaseSensitivity): Boolean;
4603: { FileEquMasks returns True if file, FileName, is compatible with given Masks.
4604:   Masks must be separated with SepPath (MSW: ';' / UNIX: ':') }
4605: function FileEquMasks(FileName, Masks: TFileName;
4606: CaseSensitive: Boolean = DefaultCaseSensitivity): Boolean;
4607: function DeleteFiles(const Folder: TFileName; const Masks: string): Boolean;
4608: {$IFDEF MSWINDOWS}
4609: { LZFileExpand expand file, FileSource,
4610:   into FileDest. Given file must be compressed, using MS Compress program }
4611: function LZFileExpand(const FileSource, FileDest: string): Boolean;
4612: {$ENDIF MSWINDOWS}
4613: { FileGetInfo finds SearchRec record for specified file attributes}
4614: function FileGetInfo(FileName: TFileName; var SearchRec: TSearchRec): Boolean;
4615: { HasSubFolder returns True, if folder APath contains other folders }
4616: function HasSubFolder(APath: TFileName): Boolean;

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

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4704: { RATextOut same with TCanvas.TextOut procedure, but can clipping drawing with rectangle, RClip. }
4705: procedure RATextOut(Canvas: TCanvas; const R, RClip: TRect; const S: string);
4706: { RATextOutEx same with RATextOut function, but can calculate needed height for correct output }
4707: function RATextOutEx(Canvas: TCanvas; const R, RClip: TRect; const S: string; const CalcHeight: Boolean): Integer;
4708: { RATextCalcHeight calculate needed height for
4709:   correct output, using RATextOut or RATextOutEx functions }
4710: function RATextCalcHeight(Canvas: TCanvas; const R: TRect; const S: string): Integer;
4711: { Cinema draws some visual effect }
4712: procedure Cinema(Canvas: TCanvas; rS {Source}, rD {Dest}: TRect);
4713: { Roughed fills rect with special 3D pattern }
4714: procedure Roughed(ACanvas: TCanvas; const ARect: TRect; const AVert: Boolean);
4715: { BitmapFromBitmap creates new small bitmap from part of source bitmap, SrcBitmap, with specified width
4716:   and height, AWidth, AHeight and placed on a specified Index, Index in the source bitmap }
4717: function BitmapFromBitmap(SrcBitmap: TBitmap; const AWidth, AHeight, Index: Integer): TBitmap;
4718: function TextWidth(const AStr: string): Integer;
4719: { TextHeight calculate text height for writing using standard desktop font }
4720: function TextHeight(const AStr: string): Integer;
4721: procedure SetChildPropOrd(Owner: TComponent; const PropName: string; Value: Longint);
4722: procedure Error(const Msg: string);
4723: procedure ItemHtDrawEx(Canvas: TCanvas; Rect: TRect; const State: TOwnerDrawState; const Text: string;
4724:   const HideSelColor: Boolean; var PlainItem: string; var Width: Integer; CalcWidth: Boolean);
4725: {example Text parameter:'Item 1<b>bold</b><i>italic ITALIC <c:Red>red<c:Green>green<c:blue>blue</i>' }
4726: function ItemHtDraw(Canvas: TCanvas; Rect: TRect;
4727:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): string;
4728: function ItemHtWidth(Canvas: TCanvas; Rect: TRect;
4729:   const State: TOwnerDrawState; const Text: string; const HideSelColor: Boolean): Integer;
4730: function ItemHtPlain(const Text: string): string;
4731: { ClearList - clears list of TObject }
4732: procedure ClearList(List: TList);
4733: procedure MemStreamToClipboard(MemStream: TMemoryStream; const Format: Word);
4734: procedure ClipboardToMemStream(MemStream: TMemoryStream; const Format: Word);
4735: { RTTI support }
4736: function GetPropType(Obj: TObject; const PropName: string): TTypeKind;
4737: function GetPropStr(Obj: TObject; const PropName: string): string;
4738: function GetPropOrd(Obj: TObject; const PropName: string): Integer;
4739: function GetPropMethod(Obj: TObject; const PropName: string): TMethod;
4740: procedure PrepareIniSection(Ss: TStrings);
4741: { following functions are not documented because they are don't work properly, so don't use them }
4742: // (rom) from JvBandWindows to make it obsolete
4743: function PointL(const X, Y: Longint): TPointL; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4744: // (rom) from JvBandUtils to make it obsolete
4745: function iif(const Test: Boolean; const ATrue, AFalse: Variant): Variant;
4746: procedure CopyIconToClipboard(Icon: TIcon; BackColor: TColor);
4747: function CreateIconFromClipboard: TIcon;
4748: { begin JvIconClipboardUtils } { Icon clipboard routines }
4749: function CF_ICON: Word;
4750: procedure AssignClipboardIcon(Icon: TIcon);
4751: { Real-size icons support routines (32-bit only) }
4752: procedure GetIconSize(Icon: HICON; var W, H: Integer);
4753: function CreateRealSizeIcon(Icon: TIcon): HICON;
4754: procedure DrawRealSizeIcon(Canvas: TCanvas; Icon: TIcon; X, Y: Integer);
4755: {end JvIconClipboardUtils }
4756: function CreateScreenCompatibleDC: HDC;
4757: function InvalidateRect(hWnd: HWND; const lpRect: TRect; bErase: BOOL): BOOL; overload; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF}
4758: function InvalidateRect(hWnd: HWND; lpRect: PRect; bErase: BOOL): BOOL; overload;
4759: { begin JvRLE } // (rom) changed API for inclusion in JCL
4760: procedure RleCompressTo(InStream, OutStream: TStream);
4761: procedure RleDecompressTo(InStream, OutStream: TStream);
4762: procedure RleCompress(Stream: TStream);
4763: procedure RleDecompress(Stream: TStream);
4764: { end JvRLE } { begin JvDateUtil }
4765: function CurrentYear: Word; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4766: function IsLeapYear(AYear: Integer): Boolean;
4767: function DaysInAMonth(const AYear, AMonth: Word): Word;
4768: function DaysPerMonth(AYear, AMonth: Integer): Integer;
4769: function FirstDayOfPrevMonth: TDateTime;
4770: function LastDayOfPrevMonth: TDateTime;
4771: function FirstDayOfNextMonth: TDateTime;
4772: function ExtractDay(ADate: TDateTime): Word;
4773: function ExtractMonth(ADate: TDateTime): Word;
4774: function ExtractYear(ADate: TDateTime): Word;
4775: function IncDate(ADate: TDateTime; Days, Months, Years: Integer): TDateTime;
4776: function IncDay(ADate: TDateTime; Delta: Integer): TDateTime; inline; {$IFDEF SUPPORTS_INLINE}
4777: function IncMonth(ADate: TDateTime; Delta: Integer): TDateTime;
4778: function IncYear(ADate: TDateTime; Delta: Integer): TDateTime;
4779: function ValidDate(ADate: TDateTime): Boolean;
4780: procedure DateDiff(Date1, Date2: TDateTime; var Days, Months, Years: Word);
4781: function MonthsBetween(Date1, Date2: TDateTime): Double;
4782: function DaysInPeriod(Date1, Date2: TDateTime): Longint;
4783: { Count days between Date1 and Date2 + 1, so if Date1 = Date2 result = 1 }
4784: function DaysBetween(Date1, Date2: TDateTime): Longint;
4785: { The same as previous but if Date2 < Date1 result = 0 }
4786: function IncTime(ATime: TDateTime; Hours, Minutes, Seconds, MSecs: Integer): TDateTime;
4787: function IncHour(ATime: TDateTime; Delta: Integer): TDateTime;
4788: function IncMinute(ATime: TDateTime; Delta: Integer): TDateTime;
4789: function IncSecond(ATime: TDateTime; Delta: Integer): TDateTime;
4790: function IncMSec(ATime: TDateTime; Delta: Integer): TDateTime;

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4791: function CutTime(ADate: TDateTime): TDateTime; { Set time to 00:00:00:00 }
4792: { String to date conversions }
4793: function GetDateOrder(const DateFormat: string): TDateOrder;
4794: function MonthFromName(const S: string; MaxLen: Byte): Byte;
4795: function StrToDateDef(const S: string; Default: TDateTime): TDateTime;
4796: function StrToDateFmt(const DateFormat, S: string): TDateTime;
4797: function StrToDateFmtDef(const DateFormat, S: string; Default: TDateTime): TDateTime;
4798: //function DefDateFormat(AFourDigitYear: Boolean): string;
4799: //function DefDateMask(BlanksChar: Char; AFourDigitYear: Boolean): string;
4800: function FormatLongDate(Value: TDateTime): string;
4801: function FormatLongDateTime(Value: TDateTime): string;
4802: { end JvDateUtil }
4803: function BufToBinStr(Buf: Pointer; BufSize: Integer): string;
4804: function BinStrToBuf(Value: string; Buf: Pointer; BufSize: Integer): Integer;
4805: { begin JvStrUtils } { ** Common string handling routines ** }
4806: {$IFDEF UNIX}
4807: function iconversion(InP: PAnsiChar; OutP: Pointer; InBytes, OutBytes: Cardinal;
4808: const ToCode, FromCode: AnsiString): Boolean;
4809: function iconvString(const S, ToCode, FromCode: AnsiString): string;
4810: function iconvWideString(const S: WideString; const ToCode, FromCode: AnsiString): WideString;
4811: function OemStrToAnsi(const S: AnsiString): AnsiString;
4812: function AnsiStrToOem(const S: AnsiString): AnsiString;
4813: {$ENDIF UNIX}
4814: function StrToOem(const AnsiStr: AnsiString): AnsiString;
4815: { StrToOem translates a string from the Windows character set into the OEM character set. }
4816: function OemToAnsiStr(const OemStr: AnsiString): AnsiString;
4817: { OemToAnsiStr translates a string from the OEM character set into the Windows character set. }
4818: function IsEmptyStr(const S: string; const EmptyChars: TSysCharSet): Boolean;
4819: { EmptyStr returns True if the given string contains only character from the EmptyChars. }
4820: function ReplaceStr(const S, Srch, Replace: string): string;
4821: { Returns string with every occurrence of Srch string replaced with Replace string. }
4822: function DelSpace(const S: string): string;
4823: { DelSpace return a string with all white spaces removed. }
4824: function DelChars(const S: string; Chr: Char): string;
4825: { DelChars return a string with all Chr characters removed. }
4826: function DelBSpace(const S: string): string;
4827: { DelBSpace trims leading spaces from the given string. }
4828: function DelESpace(const S: string): string;
4829: { DelESpace trims trailing spaces from the given string. }
4830: function DelRSpace(const S: string): string;
4831: { DelRSpace trims leading and trailing spaces from the given string. }
4832: function DelSpace1(const S: string): string;
4833: { DelSpace1 return a string with all non-single white spaces removed. }
4834: function Tab2Space(const S: string; Numb: Byte): string;
4835: { Tab2Space converts any tabulation character in the given string to the
4836: Numb spaces characters. }
4837: function NPos(const C: string; S: string; N: Integer): Integer;
4838: { NPos searches for a N-th position of substring C in a given string. }
4839: function MakeStr(C: Char; N: Integer): string; overload;
4840: {$IFNDEF COMPILER12_UP}
4841: function MakeStr(C: WideChar; N: Integer): WideString; overload;
4842: {$ENDIF !COMPILER12_UP}
4843: function MS(C: Char; N: Integer): string; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4844: { MakeStr return a string of length N filled with character C. }
4845: function AddChar(C: Char; const S: string; N: Integer): string;
4846: { AddChar return a string left-padded to length N with characters C. }
4847: function AddCharR(C: Char; const S: string; N: Integer): string;
4848: { AddCharR return a string right-padded to length N with characters C. }
4849: function LeftStr(const S: string; N: Integer): string;
4850: { LeftStr return a string right-padded to length N with blanks. }
4851: function RightStr(const S: string; N: Integer): string;
4852: { RightStr return a string left-padded to length N with blanks. }
4853: function CenterStr(const S: string; Len: Integer): string;
4854: { CenterStr centers the characters in the string based upon the Len specified. }
4855: function CompStr(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4856: { CompStr compares S1 to S2, with case-sensitivity. The return value is
4857: -1 if S1 < S2, 0 if S1 = S2, or 1 if S1 > S2. }
4858: function CompText(const S1, S2: string): Integer; {$IFDEF SUPPORTS_INLINE} inline; {$ENDIF SUPPORTS_INLINE}
4859: { CompText compares S1 to S2, without case-sensitivity. The return value is the same as for CompStr. }
4860: function Copy2Symb(const S: string; Symb: Char): string;
4861: { Copy2Symb returns a substring of a string S from begining to first character Symb. }
4862: function Copy2SymbDel(var S: string; Symb: Char): string;
4863: { Copy2SymbDel returns a substring of a string S from begining to first
4864: character Symb and removes this substring from S. }
4865: function Copy2Space(const S: string): string;
4866: { Copy2Space returns a substring of a string S from begining to first white space. }
4867: function Copy2SpaceDel(var S: string): string;
4868: { Copy2SpaceDel returns a substring of a string S from begining to first
4869: white space and removes this substring from S. }
4870: function AnsiProperCase(const S: string; const WordDelims: TSysCharSet): string;
4871: { Returns string, with the first letter of each word in uppercase,
4872: all other letters in lowercase. Words are delimited by WordDelims. }
4873: function WordCount(const S: string; const WordDelims: TSysCharSet): Integer;
4874: { WordCount given a set of word delimiters, returns number of words in S. }
4875: function WordPosition(const N: Integer; const S: string; const WordDelims: TSysCharSet): Integer;
4876: { Given a set of word delimiters, returns start position of N'th word in S. }
4877: function ExtractWord(N: Integer; const S: string; const WordDelims: TSysCharSet): string;
4878: function ExtractWordPos(N: Integer; const S: string; const WordDelims: TSysCharSet; var Pos: Integer): string;
4879: function ExtractDelimited(N: Integer; const S: string; const Delims: TSysCharSet): string;

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

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4969: {$IFDEF MSWINDOWS}
4970: //Raise the last Exception
4971: procedure RaiseLastWin32; overload;
4972: procedure RaiseLastWin32(const Text: string); overload;
4973: //Raise the last Exception with a small comment from your part { GetFileVersion returns the most
4974: // significant 32 bits of a file's binary version number. Typically, this includes the major and minor
4975: // version placed together in one 32-bit Integer. I
4976: function GetFileVersion(const AFileName: string): Cardinal;
4977: {$EXTERNALSYM GetFileVersion}
4978: function GetShellVersion: Cardinal;
4979: {$EXTERNALSYM GetShellVersion}
4980: // CD functions on HW
4981: procedure OpenCdDrive;
4982: procedure CloseCdDrive;
4983: // returns True if Drive is accessible
4984: function DiskInDrive(Drive: Char): Boolean;
4985: {$ENDIF MSWINDOWS}
4986: //Same as linux function ;
4987: procedure PError(const Text: string);
4988: // execute a program without waiting
4989: procedure Exec(const FileName, Parameters, Directory: string);
4990: // execute a program and wait for it to finish
4991: function ExecuteAndWait(CmdLine:string;const WorkingDirectory:string;Visibility:Integer=SW_SHOW): Int;
4992: // returns True if this is the first instance of the program that is running
4993: function FirstInstance(const ATitle: string): Boolean;
4994: // restores a window based on its classname and Caption. Either can be left empty
4995: // to widen the search
4996: procedure RestoreOtherInstance(const MainFormClassName, MainFormCaption: string);
4997: // manipulate the traybar and start button
4998: procedure HideTraybar;
4999: procedure ShowTraybar;
5000: procedure ShowStartButton(Visible: Boolean = True);
5001: // (rom) SC_MONITORPOWER is documented as Win 95 only(rom) better do some testing set monitor functions
5002: procedure MonitorOn;
5003: procedure MonitorOff;
5004: procedure LowPower;
5005: // send a key to the window named AppName
5006: function SendKey(const AppName: string; Key: Char): Boolean;
5007: {$ENDIF MSWINDOWS}
5008: // returns a list of all win currently visible, the Objects property is filled with their window handle
5009: procedure GetVisibleWindows(List: TStrings);
5010: Function GetVisibleWindowsF( List : TStrings):TStrings';
5011: // associates an extension to a specific program
5012: procedure AssociateExtension(const IconPath, ProgramName, Path, Extension: string);
5013: function GetRecentDocs: TStringList;
5014: {$ENDIF MSWINDOWS}
5015: function CharIsMoney(const Ch: Char): Boolean;
5016: //function StrToCurrDef(const Str: string; Def: Currency): Currency;
5017: function IntToExtended(I: Integer): Extended;
5018: { GetChangedText works out the new text given the current cursor pos & the key pressed
5019: It is not very useful in other contexts, but in this unit as it is needed in both MemoEx and TypedEdit }
5020: function GetChangedText(const Text: string; SelStart, SelLength: Integer; Key: Char): string;
5021: function MakeYear4Digit(Year, Pivot: Integer): Integer;
5022: //function StrIsInteger(const S: string): Boolean;
5023: function StrIsFloatMoney(const Ps: string): Boolean;
5024: function StrIsDateTime(const Ps: string): Boolean;
5025: function PreformatDateString(Ps: string): string;
5026: function BooleanToInteger(const B: Boolean): Integer;
5027: function StringToBoolean(const Ps: string): Boolean;
5028: function SafeStrToDate(const Ps: string): TDateTime;
5029: function SafeStrToDate(const Ps: string): TDateTime;
5030: function SafeStrToTime(const Ps: string): TDateTime;
5031: function StrDelete(const psSub, psMain: string): string;
5032: { returns the fractional value of pcValue}
5033: function TimeOnly(pcValue: TDateTime): TTime;
5034: { returns the integral value of pcValue }
5035: function DateOnly(pcValue: TDateTime): TDate;
5036: type TdtKind = (dtkDateOnly, dtkTimeOnly, dtkDateTime);
5037: const { TDateTime value used to signify Null value}
5038: NullEquivalentDate: TDateTime = 0.0;
5039: function DateIsNull(const pdtValue: TDateTime; const pdtKind: TdtKind): Boolean;
5040: // Replacement for Win32Check to avoid platform specific warnings in D6
5041: function OSCheck(RetVal: Boolean): Boolean;
5042: { Shortens a fully qualified Path name so that it can be drawn with a specified length limit.
5043: Same as FileCtrl.MinimizeName in functionality (but not implementation). Included here to
5044: not be forced to use FileCtrl unnecessarily }
5045: function MinimizeFileName(const FileName: string; Canvas: TCanvas; MaxLen: Integer): string;
5046: function MinimizeText(const Text: string; Canvas: TCanvas; MaxWidth: Integer): string;
5047: { MinimizeString truncates long string, S, and appends...'symbols,if Length of S is more than MaxLen }
5048: function MinimizeString(const S: string; const MaxLen: Integer): string;
5049: procedure RunDll32Internal(Wnd:THandle; const DLLName,FuncName,CmdLine:string;CmdShow:Integer=SW_SHOWDEFAULT);
5050: { GetDLLVersion loads DLLName, gets a pointer to DLLVersion function and calls it, returning major and
5051: minor version values from the function. Returns False if DLL not loaded or if GetDLLVersion couldn't be
5052: found.}
5053: function GetDLLVersion(const DLLName: string; var pdwMajor, pdwMinor: Integer): Boolean;
5054: {$ENDIF MSWINDOWS}

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5053: procedure ResourceNotFound(ResID: PChar);
5054: function EmptyRect: TRect;
5055: function RectWidth(R: TRect): Integer;
5056: function RectHeight(R: TRect): Integer;
5057: function CompareRect(const R1, R2: TRect): Boolean;
5058: procedure RectNormalize(var R: TRect);
5059: function RectIsSquare(const R: TRect): Boolean;
5060: function RectSquare(var ARect: TRect; AMaxSize: Integer = -1): Boolean;
5061: // If AMaxSize = -1, then auto calc Square's max size
5062: {$IFDEF MSWINDOWS}
5063: procedure FreeUnusedOle;
5064: function GetWindowsVersion: string;
5065: function LoadDLL(const LibName: string): THandle;
5066: function RegisterServer(const ModuleName: string): Boolean;
5067: function UnregisterServer(const ModuleName: string): Boolean;
5068: {$ENDIF MSWINDOWS}
5069: { String routines }
5070: function GetEnvVar(const VarName: string): string;
5071: function AnsiUpperFirstChar(const S: string): string; // follow Delphi 2009's example with "Ansi" prefix
5072: function StringToPChar(var S: string): PChar;
5073: function StrAlloc(const S: string): PChar;
5074: procedure SplitCommandLine(const CmdLine: string; var ExeName, Params: string);
5075: function DropT(const S: string): string;
5076: { Memory routines }
5077: function AllocMemo(Size: Longint): Pointer;
5078: function ReallocMemo(fpBlock: Pointer; Size: Longint): Pointer;
5079: procedure FreeMemo(var fpBlock: Pointer);
5080: function GetMemoSize(fpBlock: Pointer): Longint;
5081: function CompareMem(fpBlock1, fpBlock2: Pointer; Size: Cardinal): Boolean;
5082: { Manipulate huge pointers routines }
5083: procedure HugeInc(var HugePtr: Pointer; Amount: Longint);
5084: procedure HugeDec(var HugePtr: Pointer; Amount: Longint);
5085: function HugeOffset(HugePtr: Pointer; Amount: Longint): Pointer;
5086: procedure HugeMove(Base: Pointer; Dst, Src, Size: Longint);
5087: procedure HMemCpy(DstPtr, SrcPtr: Pointer; Amount: Longint);
5088: function WindowClassName(Wnd: THandle): string;
5089: procedure SwitchToWindow(Wnd: THandle; Restore: Boolean);
5090: procedure ActivateWindow(Wnd: THandle);
5091: procedure ShowWinNoAnimate(Handle: THandle; CmdShow: Integer);
5092: procedure KillMessage(Wnd: THandle; Msg: Cardinal);
5093: { SetWindowTop put window to top without recreating window }
5094: procedure SetWindowTop(const Handle: THandle; const Top: Boolean);
5095: procedure CenterWindow(Wnd: THandle);
5096: function MakeVariant(const Values: array of Variant): Variant;
5097: { Convert dialog units to pixels and backwards }
5098: {$IFDEF MSWINDOWS}
5099: function DialogUnitsToPixelsX(DlgUnits: Word): Word;
5100: function DialogUnitsToPixelsY(DlgUnits: Word): Word;
5101: function PixelsToDialogUnitsX(PixUnits: Word): Word;
5102: function PixelsToDialogUnitsY(PixUnits: Word): Word;
5103: {$ENDIF MSWINDOWS}
5104: function GetUniqueFileNameInDir(const Path, FileNameMask: string): string;
5105: {$IFDEF BCB}
5106: function FindPrevInstance(const MainFormClass: ShortString; const ATitle: string): THandle;
5107: function ActivatePrevInstance(const MainFormClass: ShortString; const ATitle: string): Boolean;
5108: {$ELSE}
5109: function FindPrevInstance(const MainFormClass, ATitle: string): THandle;
5110: function ActivatePrevInstance(const MainFormClass, ATitle: string): Boolean;
5111: {$ENDIF BCB}
5112: {$IFDEF MSWINDOWS}
5113: { BrowseForFolderNative displays Browse For Folder dialog }
5114: function BrowseForFolderNative(const Handle: THandle; const Title: string; var Folder: string): Boolean;
5115: {$ENDIF MSWINDOWS}
5116: procedure AntiAlias(Alias: TBitmap);
5117: procedure AntiAliasRect(Clip: TBitmap; XOrigin, YOrigin, XFinal, YFinal: Integer);
5118: procedure CopyRectDIBits(ACanvas: TCanvas; const DestRect: TRect;
5119: ABitmap: TBitmap; const SourceRect: TRect);
5120: function IsTrueType(const FontName: string): Boolean;
5121: // Removes all non-numeric characters from AValue and returns the resulting string
5122: function TextToValText(const AValue: string): string;
5123: Function ExecRegExpr( const ARegExpr, AInputStr : RegExprString ) : boolean
5124: Procedure SplitRegExpr( const ARegExpr, AInputStr : RegExprString; APieces : TStrings )
5125: Function ReplaceRegExpr( const ARegExpr,AInputStr,
      AReplaceStr:RegExprString;AUseSubstitution:bool):RegExprString;
5126: Function QuoteRegExprMetaChars( const AStr : RegExprString ) : RegExprString
5127: Function RegExprSubExpressions( const ARegExpr:string; ASubExps:TStrings; AExtendedSyntax : boolean ) :
5128:
5129: *****unit uPSI_JvTFUtils;
5130: Function JExtractYear( ADate : TDateTime ) : Word
5131: Function JExtractMonth( ADate : TDateTime ) : Word
5132: Function JExtractDay( ADate : TDateTime ) : Word
5133: Function ExtractHours( ATime : TDateTime ) : Word
5134: Function ExtractMins( ATime : TDateTime ) : Word
5135: Function ExtractSecs( ATime : TDateTime ) : Word
5136: Function ExtractMSecs( ATime : TDateTime ) : Word
5137: Function FirstOfMonth( ADate : TDateTime ) : TDateTime
5138: Function GetDayOfNthDOW( Year, Month, DOW, N : Word ) : Word
5139: Function GetWeeksInMonth( Year, Month : Word; StartOfWeek : Integer ) : Word
5140: Procedure IncBorlDOW( var BorlDOW : Integer; N : Integer )

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5141: Procedure IncDOW( var DOW : TTFFDayOfWeek; N : Integer)
5142: Procedure IncDays( var ADate : TDateTime; N : Integer)
5143: Procedure IncWeeks( var ADate : TDateTime; N : Integer)
5144: Procedure IncMonths( var ADate : TDateTime; N : Integer)
5145: Procedure IncYears( var ADate : TDateTime; N : Integer)
5146: Function EndOfMonth( ADate : TDateTime) : TDateTime
5147: Function IsFirstOfMonth( ADate : TDateTime) : Boolean
5148: Function IsEndOfMonth( ADate : TDateTime) : Boolean
5149: Procedure EnsureMonth( Month : Word)
5150: Procedure EnsureDOW( DOW : Word)
5151: Function EqualDates( D1, D2 : TDateTime) : Boolean
5152: Function Lesser( N1, N2 : Integer) : Integer
5153: Function Greater( N1, N2 : Integer) : Integer
5154: Function GetDivLength( TotalLength, DivCount, DivNum : Integer) : Integer
5155: Function GetDivNum( TotalLength, DivCount, X : Integer) : Integer
5156: Function GetDivStart( TotalLength, DivCount, DivNum : Integer) : Integer
5157: Function DOWToBorl( ADOW : TTFFDayOfWeek) : Integer
5158: Function BorlToDOW( BorlDOW : Integer) : TTFFDayOfWeek
5159: Function DateToDOW( ADate : TDateTime) : TTFFDayOfWeek
5160: Procedure CalcTextPos( HostRect : TRect; var TextLeft, TextTop:Integer; var TextBounds : TRect;
AFont:TFont;AAngle: Integer; HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5161: Procedure DrawAngleText( ACanvas : TCanvas; HostRect : TRect; var TextBounds : TRect; AAngle : Integer;
HAlign : TAlignment; VAlign : TJvTFVAlignment; ATxt : string)
5162: Function JRectWidth( ARect : TRect) : Integer
5163: Function JRectHeight( ARect : TRect) : Integer
5164: Function JEmptyRect : TRect
5165: Function IsClassByName( Obj : TObject; ClassName : string) : Boolean
5166:
5167: procedure SIRegister_MSysUtils(CL: TPSPascalCompiler);
5168: begin
5169:   Procedure HideTaskBarButton( hWindow : HWND)
5170:   Function msLoadStr( ID : Integer) : String
5171:   Function msFormat( fmt : String; params : array of const) : String
5172:   Function msFileExists( const FileName : String) : Boolean
5173:   Function msIntToStr( Int : Int64) : String
5174:   Function msStrPas( const Str : PChar) : String
5175:   Function msRenamefile( const OldName, NewName : String) : Boolean
5176:   Function CutFileName( s : String) : String
5177:   Function GetVersionInfo( var VersionString : String) : DWORD
5178:   Function FormatTime( t : Cardinal) : String
5179:   Function msCreateDir( const Dir : string) : Boolean
5180:   Function SetAutoRun( NeedAutoRun : Boolean; AppName : String) : Boolean
5181:   Function SetTreeLineStyle( const hTV : HWND; dwNewStyle : dword) : DWORD
5182:   Function msStrLen( Str : PChar) : Integer
5183:   Function msDirectoryExists( const Directory : String) : Boolean
5184:   Function GetFolder( hWnd : HWND; RootDir : Integer; Caption : String) : String
5185:   Function SetBlendWindow( hWnd : HWND; AlphaBlend : Byte) : LongBool
5186:   Function EditWindowProc( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM) : LRESULT
5187:   Procedure SetEditWndProc( hWnd : HWND; ptr : TObject)
5188:   Function GetTextFromFile( Filename : String) : string
5189:   Function IsTopMost( hWnd : HWND) : Bool // 'LWA_ALPHA','LongWord').SetUInt( $00000002);
5190:   Function msStrToIntDef( const s : String; const i : Integer) : Integer
5191:   Function msStrToInt( s : String) : Integer
5192:   Function GetItemText( hDlg : THandle; ID : DWORD) : String
5193: end;
5194:
5195: procedure SIRegister_ESBMaths2(CL: TPSPascalCompiler);
5196: begin
5197:   //TDynFloatArray', 'array of Extended
5198:   TDynLWordArray', 'array of LongWord
5199:   TDynLIntArray', 'array of LongInt
5200:   TDynFloatMatrix', 'array of TDynFloatArray
5201:   TDynLWordMatrix', 'array of TDynLWordArray
5202:   TDynLIntMatrix', 'array of TDynLIntArray
5203:   Function SquareAll( const X : TDynFloatArray) : TDynFloatArray
5204:   Function InverseAll( const X : TDynFloatArray) : TDynFloatArray
5205:   Function LnAll( const X : TDynFloatArray) : TDynFloatArray
5206:   Function Log10All( const X : TDynFloatArray) : TDynFloatArray
5207:   Function LinearTransform( const X : TDynFloatArray; Offset, Scale : Extended) : TDynFloatArray
5208:   Function AddVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5209:   Function SubVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5210:   Function MultVectors( const X, Y : TDynFloatArray) : TDynFloatArray
5211:   Function DotProduct( const X, Y : TDynFloatArray) : Extended
5212:   Function MNorm( const X : TDynFloatArray) : Extended
5213:   Function MatrixIsRectangular( const X : TDynFloatMatrix) : Boolean
5214:   Procedure MatrixDimensions(const X:TDynFloatMatrix;var Rows,Columns:LongWord;var Rectangular:Boolean);
5215:   Function MatrixIsSquare( const X : TDynFloatMatrix) : Boolean
5216:   Function MatricesSameDimensions( const X, Y : TDynFloatMatrix) : Boolean
5217:   Function AddMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5218:   Procedure AddToMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5219:   Function SubtractMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix
5220:   Procedure SubtractFromMatrix( var X : TDynFloatMatrix; const Y : TDynFloatMatrix)
5221:   Function MultiplyMatrixByConst( const X : TDynFloatMatrix; const K : Extended) : TDynFloatMatrix
5222:   Procedure MultiplyMatrixByConst2( var X : TDynFloatMatrix; const K : Extended);
5223:   Function MultiplyMatrices( const X, Y : TDynFloatMatrix) : TDynFloatMatrix;
5224:   Function TransposeMatrix( const X : TDynFloatMatrix) : TDynFloatMatrix;
5225:   Function GrandMean( const X : TDynFloatMatrix; var N : LongWord) : Extended
5226: end;
5227:

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5228: procedure SIRegister_ESBMaths(CL: TPSCompiler);
5229: begin
5230:   'ESBMinSingle','Single').setExtended( 1.5e-45);
5231:   'ESBMaxSingle','Single').setExtended( 3.4e+38);
5232:   'ESBMinDouble','Double').setExtended( 5.0e-324);
5233:   'ESBMaxDouble','Double').setExtended( 1.7e+308);
5234:   'ESBMinExtended','Extended').setExtended( 3.6e-4951);
5235:   'ESBMaxExtended','Extended').setExtended( 1.1e+4932);
5236:   'ESBMinCurrency','Currency').SetExtended( - 922337203685477.5807);
5237:   'ESBMaxCurrency','Currency').SetExtended( 922337203685477.5807);
5238:   'ESBSqrt2','Extended').setExtended( 1.4142135623730950488);
5239:   'ESBSqrt3','Extended').setExtended( 1.7320508075688772935);
5240:   'ESBSqrt5','Extended').setExtended( 2.2360679774997896964);
5241:   'ESBSqrt10','Extended').setExtended( 3.1622776601683793320);
5242:   'ESBSqrtPi','Extended').setExtended( 1.77245385090551602729);
5243:   'ESBCbrt2','Extended').setExtended( 1.2599210498948731648);
5244:   'ESBCbrt3','Extended').setExtended( 1.4422495703074083823);
5245:   'ESBCbrt10','Extended').setExtended( 2.1544346900318837219);
5246:   'ESBCbrt100','Extended').setExtended( 4.6415888336127788924);
5247:   'ESBCbrtPi','Extended').setExtended( 1.4645918875615232630);
5248:   'ESBInvSqrt2','Extended').setExtended( 0.70710678118654752440);
5249:   'ESBInvSqrt3','Extended').setExtended( 0.57735026918962576451);
5250:   'ESBInvSqrt5','Extended').setExtended( 0.44721359549995793928);
5251:   'ESBInvSqrtPi','Extended').setExtended( 0.56418958354775628695);
5252:   'ESBInvCbrtPi','Extended').setExtended( 0.68278406325529568147);
5253:   'ESBe','Extended').setExtended( 2.7182818284590452354);
5254:   'ESBe2','Extended').setExtended( 7.3890560989306502272);
5255:   'ESBePi','Extended').setExtended( 23.140692632779269006);
5256:   'ESBePiOn2','Extended').setExtended( 4.8104773809653516555);
5257:   'ESBePiOn4','Extended').setExtended( 2.1932800507380154566);
5258:   'ESBLn2','Extended').setExtended( 0.69314718055994530942);
5259:   'ESBLn10','Extended').setExtended( 2.30258509299404568402);
5260:   'ESBLnP1','Extended').setExtended( 1.14472988584940017414);
5261:   'ESBLog10Base2','Extended').setExtended( 3.3219280948873623478);
5262:   'ESBLog2Base10','Extended').setExtended( 0.30102999566398119521);
5263:   'ESBLog3Base10','Extended').setExtended( 0.47712125471966243730);
5264:   'ESBLogPiBase10','Extended').setExtended( 0.4971498726941339);
5265:   'ESBLogEBase10','Extended').setExtended( 0.43429448190325182765);
5266:   'ESBPi','Extended').setExtended( 3.141592653897932385);
5267:   'ESBInvPi','Extended').setExtended( 3.1830988618379067154e-1);
5268:   'ESBTwoPi','Extended').setExtended( 6.2831853071795864769);
5269:   'ESBThreePi','Extended').setExtended( 9.4247779607693797153);
5270:   'ESBPi2','Extended').setExtended( 9.8696044010893586188);
5271:   'ESBPiToE','Extended').setExtended( 22.459157718361045473);
5272:   'ESBPiOn2','Extended').setExtended( 1.5707963267948966192);
5273:   'ESBPiOn3','Extended').setExtended( 1.0471975511965977462);
5274:   'ESBPiOn4','Extended').setExtended( 0.7853981633974483096);
5275:   'ESBThreePiOn2','Extended').setExtended( 4.7123889803846898577);
5276:   'ESBFourPiOn3','Extended').setExtended( 4.1887902047863909846);
5277:   'ESBTwoToPower63','Extended').setExtended( 9223372036854775808.0);
5278:   'ESBOneRadian','Extended').setExtended( 57.295779513082320877);
5279:   'ESBOneDegree','Extended').setExtended( 1.7453292519943295769E-2);
5280:   'ESBOneMinute','Extended').setExtended( 2.9088820866572159615E-4);
5281:   'ESBOneSecond','Extended').setExtended( 4.8481368110953599359E-6);
5282:   'ESBGamma','Extended').setExtended( 0.57721566490153286061);
5283:   'ESBLnRT2Pi','Extended').setExtended( 9.189385332046727E-1);
5284: //LongWord', 'Cardinal
5285: TBitList', 'Word
5286: Function UMul( const Num1, Num2 : LongWord ) : LongWord
5287: Function UMulDiv2p32( const Num1, Num2 : LongWord ) : LongWord
5288: Function UMulDiv( const Num1, Num2, Divisor : LongWord ) : LongWord
5289: Function UMulMod( const Num1, Num2, Modulus : LongWord ) : LongWord
5290: Function SameFloat( const X1, X2 : Extended ) : Boolean
5291: Function FloatIsZero( const X : Extended ) : Boolean
5292: Function FloatIsPositive( const X : Extended ) : Boolean
5293: Function FloatIsNegative( const X : Extended ) : Boolean
5294: Procedure InclIm( var B : Byte; const Limit : Byte )
5295: Procedure InclImSI( var B : ShortInt; const Limit : ShortInt )
5296: Procedure InclImW( var B : Word; const Limit : Word )
5297: Procedure InclImI( var B : Integer; const Limit : Integer )
5298: Procedure InclImL( var B : LongInt; const Limit : LongInt )
5299: Procedure Declim( var B : Byte; const Limit : Byte )
5300: Procedure DeclimSI( var B : ShortInt; const Limit : ShortInt )
5301: Procedure DeclimW( var B : Word; const Limit : Word )
5302: Procedure DeclimI( var B : Integer; const Limit : Integer )
5303: Procedure DeclimL( var B : LongInt; const Limit : LongInt )
5304: Function MaxB( const B1, B2 : Byte ) : Byte
5305: Function MinB( const B1, B2 : Byte ) : Byte
5306: Function MaxSI( const B1, B2 : ShortInt ) : ShortInt
5307: Function MinSI( const B1, B2 : ShortInt ) : ShortInt
5308: Function MaxW( const B1, B2 : Word ) : Word
5309: Function MinW( const B1, B2 : Word ) : Word
5310: Function esbMaxI( const B1, B2 : Integer ) : Integer
5311: Function esbMinI( const B1, B2 : Integer ) : Integer
5312: Function MaxL( const B1, B2 : LongInt ) : LongInt
5313: Function MinL( const B1, B2 : LongInt ) : LongInt
5314: Procedure SwapB( var B1, B2 : Byte )
5315: Procedure SwapSI( var B1, B2 : ShortInt )
5316: Procedure SwapW( var B1, B2 : Word )

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5317: Procedure SwapI( var B1, B2 : SmallInt)
5318: Procedure SwapL( var B1, B2 : LongInt)
5319: Procedure SwapI32( var B1, B2 : Integer)
5320: Procedure SwapC( var B1, B2 : LongWord)
5321: Procedure SwapInt64( var X, Y : Int64)
5322: Function esbSign( const B : LongInt) : ShortInt
5323: Function Max4Word( const X1, X2, X3, X4 : Word) : Word
5324: Function Min4Word( const X1, X2, X3, X4 : Word) : Word
5325: Function Max3Word( const X1, X2, X3 : Word) : Word
5326: Function Min3Word( const X1, X2, X3 : Word) : Word
5327: Function MaxBArray( const B : array of Byte) : Byte
5328: Function MaxWArray( const B : array of Word) : Word
5329: Function MaxSIArray( const B : array of ShortInt) : ShortInt
5330: Function MaxIArray( const B : array of Integer) : Integer
5331: Function MaxLArray( const B : array of LongInt) : LongInt
5332: Function MinBArray( const B : array of Byte) : Byte
5333: Function MinWArray( const B : array of Word) : Word
5334: Function MinSIArray( const B : array of ShortInt) : ShortInt
5335: Function MinIArray( const B : array of Integer) : Integer
5336: Function MinLArray( const B : array of LongInt) : LongInt
5337: Function SumBArray( const B : array of Byte) : Byte
5338: Function SumBArray2( const B : array of Byte) : Word
5339: Function SumSIArray( const B : array of ShortInt) : ShortInt
5340: Function SumSIArray2( const B : array of ShortInt) : Integer
5341: Function SumWArray( const B : array of Word) : Word
5342: Function SumWArray2( const B : array of Word) : LongInt
5343: Function SumIArray( const B : array of Integer) : Integer
5344: Function SumLArray( const B : array of LongInt) : LongInt
5345: Function SumLWArray( const B : array of LongWord) : LongWord
5346: Function ESBDigits( const X : LongWord) : Byte
5347: Function BitsHighest( const X : LongWord) : Integer
5348: Function ESBBitsNeeded( const X : LongWord) : Integer
5349: Function esbGCD( const X, Y : LongWord) : LongWord
5350: Function esbLCM( const X, Y : LongInt) : Int64
5351: //Function esbLCM( const X, Y : LongInt) : LongInt
5352: Function RelativePrime( const X, Y : LongWord) : Boolean
5353: Function Get87ControlWord : TBitList
5354: Procedure Set87ControlWord( const CWord : TBitList)
5355: Procedure SwapExt( var X, Y : Extended)
5356: Procedure SwapDbl( var X, Y : Double)
5357: Procedure SwapSing( var X, Y : Single)
5358: Function esbSgn( const X : Extended) : ShortInt
5359: Function Distance( const X1, Y1, X2, Y2 : Extended) : Extended
5360: Function ExtMod( const X, Y : Extended) : Extended
5361: Function ExtRem( const X, Y : Extended) : Extended
5362: Function CompMOD( const X, Y : Comp) : Comp
5363: Procedure Polar2XY( const Rho, Theta : Extended; var X, Y : Extended)
5364: Procedure XY2Polar( const X, Y : Extended; var Rho, Theta : Extended)
5365: Function DMS2Extended( const Degs, Mins, Secs : Extended) : Extended
5366: Procedure Extended2DMS( const X : Extended; var Degs, Mins, Secs : Extended)
5367: Function MaxExt( const X, Y : Extended) : Extended
5368: Function MinExt( const X, Y : Extended) : Extended
5369: Function MaxEArray( const B : array of Extended) : Extended
5370: Function MinEArray( const B : array of Extended) : Extended
5371: Function MaxSArray( const B : array of Single) : Single
5372: Function MinSArray( const B : array of Single) : Single
5373: Function MaxCArray( const B : array of Comp) : Comp
5374: Function MinCArray( const B : array of Comp) : Comp
5375: Function SumSArray( const B : array of Single) : Single
5376: Function SumEArray( const B : array of Extended) : Extended
5377: Function SumSqEArray( const B : array of Extended) : Extended
5378: Function SumSqDiffEArray( const B : array of Extended; Diff : Extended) : Extended
5379: Function SumXYEArray( const X, Y : array of Extended) : Extended
5380: Function SumCArray( const B : array of Comp) : Comp
5381: Function FactorialX( A : LongWord) : Extended
5382: Function PermutationX( N, R : LongWord) : Extended
5383: Function esbBinomialCoeff( N, R : LongWord) : Extended
5384: Function IsPositiveEArray( const X : array of Extended) : Boolean
5385: Function esbGeometricMean( const X : array of Extended) : Extended
5386: Function esbHarmonicMean( const X : array of Extended) : Extended
5387: Function ESBMean( const X : array of Extended) : Extended
5388: Function esbSampleVariance( const X : array of Extended) : Extended
5389: Function esbPopulationVariance( const X : array of Extended) : Extended
5390: Procedure esbSampleVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5391: Procedure esbPopulationVarianceAndMean( const X : array of Extended; var Variance, Mean : Extended)
5392: Function GetMedian( const SortedX : array of Extended) : Extended
5393: Function GetMode( const SortedX : array of Extended; var Mode : Extended) : Boolean
5394: Procedure GetQuartiles( const SortedX : array of Extended; var Q1, Q3 : Extended)
5395: Function ESBMagnitude( const X : Extended) : Integer
5396: Function ESBTan( Angle : Extended) : Extended
5397: Function ESB Cot( Angle : Extended) : Extended
5398: Function ESB Cosec( const Angle : Extended) : Extended
5399: Function ESB Sec( const Angle : Extended) : Extended
5400: Function ESB ArcTan( X, Y : Extended) : Extended
5401: Procedure ESB SinCos( Angle : Extended; var SinX, CosX : Extended)
5402: Function ESB ArcCos( const X : Extended) : Extended
5403: Function ESB ArcSin( const X : Extended) : Extended
5404: Function ESB ArcSec( const X : Extended) : Extended
5405: Function ESB ArcCosec( const X : Extended) : Extended

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5406: Function ESBLog10( const X : Extended ) : Extended
5407: Function ESBLog2( const X : Extended ) : Extended
5408: Function ESBLogBase( const X, Base : Extended ) : Extended
5409: Function Pow2( const X : Extended ) : Extended
5410: Function IntPow( const Base : Extended; const Exponent : LongWord ) : Extended
5411: Function ESBIntPower( const X : Extended; const N : LongInt ) : Extended
5412: Function XtoY( const X, Y : Extended ) : Extended
5413: Function esbTenToY( const Y : Extended ) : Extended
5414: Function esbTwoToY( const Y : Extended ) : Extended
5415: Function LogXtoBaseY( const X, Y : Extended ) : Extended
5416: Function esbISqrt( const I : LongWord ) : Longword
5417: Function ILG2( const I : LongWord ) : Longword
5418: Function IGreatestPowerOf2( const N : LongWord ) : LongWord
5419: Function ESBArCosh( X : Extended ) : Extended
5420: Function ESBArSinh( X : Extended ) : Extended
5421: Function ESBArTanh( X : Extended ) : Extended
5422: Function ESBCosinh( X : Extended ) : Extended
5423: Function ESBSinh( X : Extended ) : Extended
5424: Function ESBTanh( X : Extended ) : Extended
5425: Function InverseGamma( const X : Extended ) : Extended
5426: Function esbGamma( const X : Extended ) : Extended
5427: Function esbLnGamma( const X : Extended ) : Extended
5428: Function esbBeta( const X, Y : Extended ) : Extended
5429: Function IncompleteBeta( X : Extended; P, Q : Extended ) : Extended
5430: end;
5431:
5432: ***** Integer Huge Cardinal Utils*****
5433: Function Add_uint64_WithCarry( x, y : uint64; var Carry : Boolean ) : uint64
5434: Function Add_uint32_WithCarry( x, y : uint32; var Carry : Boolean ) : uint32
5435: Function Subtract_uint64_WithBorrow( x, y : uint64; var Borrow : Boolean ) : uint64
5436: Function Subtract_uint32_WithBorrow( x, y : uint32; var Borrow : Boolean ) : uint32
5437: Function BitCount_8( Value : byte ) : integer
5438: Function BitCount_16( Value : uint16 ) : integer
5439: Function BitCount_32( Value : uint32 ) : integer
5440: Function BitCount_64( Value : uint64 ) : integer
5441: Function CountSetBits_64( Value : uint64 ) : integer TPrimalityTestNoticeProc',
5442: Procedure ( CountPrimalityTests : integer )
5443: Function gcd( a, b : THugeCardinal ) : THugeCardinal
5444: Function lcm( a, b : THugeCardinal ) : THugeCardinal
5445: Function isCoPrime( a, b : THugeCardinal ) : boolean
5446: Function isProbablyPrime( p: THugeCardinal; OnProgress: TProgress; var wasAborted: boolean): boolean
5447: Function hasSmallFactor( p : THugeCardinal ) : boolean
5448: //Function GeneratePrime( NumBits : integer; OnProgress : TProgress; OnPrimalityTest:
      TPrimalityTestNoticeProc; PassCount: integer; Pool1:TMemoryStreamPool; var Prime: THugeCardinal; var
      NumbersTested: integer ) : boolean
5449: Function Inverse( Prime, Modulus : THugeCardinal ) : THugeCardinal
5450: Const('StandardExponent','LongInt'( 65537 );
5451: //Procedure Compute_RSA_Fundamentals_2Factors(RequiredBitLengthOfN:integer;Fixed_e:uint64;var N,e,d,
      Totient:TProgress;OnPrimalityTest:TPrimalityTestNoticeProc;GeneratePrimePassCount:int;Pool1:TMemoryStreamPo
      Numbers
5452: Function Validate_RSA_Fundamentals( var N, e, d, Totient : THugeCardinal ) : boolean')
5453:
5454: procedure SIRegister_xrtl_math_Integer(CL: TPSPascalCompiler);
5455: begin
5456:   AddTypeS('TXRTLInteger', 'array of Integer'
5457:   AddClassN(FindClass('TOBJECT'), 'EXRTLMATHException'
5458:   (FindClass('TOBJECT'), 'EXRTLExtendInvalidArgument'
5459:   AddClassN(FindClass('TOBJECT'), 'EXRTLDivisionByZero'
5460:   AddClassN(FindClass('TOBJECT'), 'EXRTLExpInvalidArgument'
5461:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadix'
5462:   AddClassN(FindClass('TOBJECT'), 'EXRTLInvalidRadixDigit'
5463:   AddClassN(FindClass('TOBJECT'), 'EXRTLRootInvalidArgument'
5464:   'BitsPerByte','LongInt'( 8 );
5465:   BitsPerDigit','LongInt'( 32 );
5466:   SignBitMask','LongWord( $80000000 );
5467:   Function XRTLAdjustBits( const ABits : Integer ) : Integer
5468:   Function XRTLLength( const AInteger : TXRTLInteger ) : Integer
5469:   Function XRTLDataBits( const AInteger : TXRTLInteger ) : Integer
5470:   Procedure XRTLBBitPosition( const BitIndex : Integer; var Index, Mask : Integer )
5471:   Procedure XRTLBBitSet( var AInteger : TXRTLInteger; const BitIndex : Integer )
5472:   Procedure XRTLBBitReset( var AInteger : TXRTLInteger; const BitIndex : Integer )
5473:   Function XRTLBGet( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Integer
5474:   Function XRTLBGetBool( const AInteger : TXRTLInteger; const BitIndex : Integer ) : Boolean
5475:   Function XRTLExtend(const AInteger:TXRTLInteger;ADataBits:Integer;Sign:Int8;var AResult:TXRTLInteger):Int;
5476:   Function XRTLZeroExtend(const AInteger:TXRTLInteger;ADataBits:Integer; var AResult:TXRTLInteger):Integer;
5477:   Function XRTLSignExtend(const AInteger:TXRTLInteger; ADataBits:Integer;var AResult:TXRTLInteger):Integer;
5478:   Function XRTLSignStrip(const AInteger:TXRTLInteger;var AResult:TXRTLInteger;const AMinDataBits:Int):Int;
5479:   Procedure XRTLNNot( const AInteger : TXRTLInteger; var AResult : TXRTLInteger )
5480:   Procedure XRTLOr( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5481:   Procedure XRTLAnd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5482:   Procedure XRTLXor( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger )
5483:   Function XRTLSign( const AInteger : TXRTLInteger ) : Integer
5484:   Procedure XRTLZero( var AInteger : TXRTLInteger )
5485:   Procedure XRTLOne( var AInteger : TXRTLInteger )
5486:   Procedure XRTLMOne( var AInteger : TXRTLInteger )
5487:   Procedure XRTLTTwo( var AInteger : TXRTLInteger )
5488:   Function XRTLNeg( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5489:   Function XRTLAbs( const AInteger : TXRTLInteger; var AResult : TXRTLInteger ) : Integer
5490:   Procedure XRTLFULLSum( const A, B, C : Integer; var Sum, Carry : Integer )

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5491: Function XRTLAdd( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5492: Function XRTLAdd1(const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5493: Function XRTLSUB( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5494: Function XRTLSUB1( const AInteger1:TXRTLInteger;const AInteger2:Int64;var AResult:TXRTLInteger):Integer;
5495: Function XRTLCompare( const AInteger1, AInteger2 : TXRTLInteger ) : Integer;
5496: Function XRTLCompare1( const AInteger1 : TXRTLInteger; const AInteger2 : Int64 ) : Integer;
5497: Function XRTLUMUL( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5498: Function XRTLMULAdd(const AInteger1,AInteger2:TXRTLInteger; var AResult:TXRTLInteger):Integer;
5499: Function XRTLMUL( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger ) : Integer;
5500: Procedure XRTLDIVMod( const AInteger1, AInteger2 : TXRTLInteger; var QResult, RResult : TXRTLInteger );
5501: Procedure XRTLSQR( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5502: Procedure XRTLSQR1( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5503: Procedure XRTLRoot( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5504: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHighApproxResult:TXRTLInteger);
5505: Procedure XRTLRootApprox(const AInteger1,AInteger2:TXRTLInteger;var ALowApproxResult,
AHighApproxResult:TXRTLInteger);
5506: Procedure XRTLEXP( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5507: Procedure XRTLEXPMOD( const AInteger1, AInteger2, AInteger3 : TXRTLInteger;var AResult:TXRTLInteger );
5508: Procedure XRTLSLBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5509: Procedure XRTLSABL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5510: Procedure XRTLRCBL( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5511: Procedure XRTLSLDL( const AInteger:TXRTLInteger;const DigitCount:Integer; var AResult:TXRTLInteger );
5512: Procedure XRTLSADL( const AInteger : TXRTLInteger; const DigitCount:Integer;var AResult:TXRTLInteger );
5513: Procedure XRTLRCDL( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger );
5514: Procedure XRTLSLBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5515: Procedure XRTLSABR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5516: Procedure XRTLRCBR( const AInteger : TXRTLInteger; const BitCount:Integer; var AResult : TXRTLInteger );
5517: Procedure XRTLSLDR( const AInteger:TXRTLInteger; const DigitCount:Integer; var AResult:TXRTLInteger );
5518: Procedure XRTLSADR( const AInteger : TXRTLInteger; const DigitCount:Integer;var AResult:TXRTLInteger );
5519: Procedure XRTLRCDR( const AInteger : TXRTLInteger;const DigitCount:Integer;var AResult:TXRTLInteger );
5520: Function XRTLToHex( const AInteger : TXRTLInteger; Digits : Integer ) : string;
5521: Function XRTLToBin( const AInteger : TXRTLInteger; Digits : Integer ) : string;
5522: Function XRTLToString( const AInteger : TXRTLInteger; Radix : Integer; Digits : Integer ) : string;
5523: Procedure XRTLFROMHex( const Value : string; var AResult : TXRTLInteger );
5524: Procedure XRTLFROMBin( const Value : string; var AResult : TXRTLInteger );
5525: Procedure XRTLFROMString( const Value : string; var AResult : TXRTLInteger; Radix : Integer );
5526: Procedure XRTLASSIGN( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5527: Procedure XRTLASSIGN1( const Value : Integer; var AResult : TXRTLInteger );
5528: Procedure XRTLASSIGN2( const Value : Int64; var AResult : TXRTLInteger );
5529: Procedure XRTLAPPEND( const ALow, AHigh : TXRTLInteger; var AResult : TXRTLInteger );
5530: Procedure XRTLSPLIT( const AInteger : TXRTLInteger; var ALow,AHigh: TXRTLInteger;LowDigits: Integer );
5531: Function XRTLGetMSBIndex( const AInteger : TXRTLInteger ) : Integer;
5532: Procedure XRTLMINMAX( const AInteger1, AInteger2 : TXRTLInteger;var AMinResult,AMaxResult : TXRTLInteger );
5533: Procedure XRTLMIN( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5534: Procedure XRTLMIN1( const AInteger1:TXRTLInteger;const AInteger2:Integer;var AResult:TXRTLInteger );
5535: Procedure XRTLMAX( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5536: Procedure XRTLMAX1( const AInteger1:TXRTLInteger; const AInteger2:Integer; var AResult:TXRTLInteger );
5537: Procedure XRTLGCDF( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5538: Procedure XRTLSWAP( var AInteger1, AInteger2 : TXRTLInteger );
5539: Procedure XRTLFACCTORIAL( const AInteger : TXRTLInteger; var AResult : TXRTLInteger );
5540: Procedure XRTLFACCTORIALMOD( const AInteger1, AInteger2 : TXRTLInteger; var AResult : TXRTLInteger );
5541: end;
5542:
5543: procedure SIRegister_JvXPCoreUtils(CL: TPSCompiler);
5544: begin
5545:   Function JvXPMethodsEqual( const Method1, Method2 : TMethod ) : Boolean;
5546:   Procedure JvXPDrawLine( const ACanvas : TCanvas; const X1, Y1, X2, Y2 : Integer );
5547:   Procedure JvXPCreateGradientRect( const AWidth, AHeight : Integer; const StartColor, EndColor : TColor;
      const Colors:TJvXPGradientColors;const Style:TJvXPGradientStyle;const Dithered:Boolean;var Bitmap:TBitmap );
5548:   Procedure JvXPADJUSTBORDRECT( const BorderWidth:Byte; const ShowBoundLines:Boolean; const
      BoundLines:TJvXPBoundLines; var Rect : TRect );
5549:   Procedure JvXPDRAWBOUNDLINES( const ACan:TCanvas;const BoundLns:TJvXPBoundLns;const
      AColor:TColor;Rect:TRect );
5550:   Procedure JvXPConvertToGray2( Bitmap : TBitmap );
5551:   Procedure JvXPRENDERTEXT( const AParent : TControl; const ACanvas : TCanvas; ACaption : TCaption; const
      AFont : TFont; const AEnabled, AShowAccelChar : Boolean; var ARect : TRect; AFlags : Integer );
5552:   Procedure JvXPFrame3D( const ACanvas:TCanvas;const Rect:TRect; TopColor,BottomColor:TColor;const
      Swapped:Bool );
5553:   Procedure JvXPColorizeBitmap( Bitmap : TBitmap; const AColor : TColor );
5554:   Procedure JvXPSETDRAWFLAGS( const AAlignment: TALIGNMENT;const AWORDWRAP: Boolean; var Flags : Integer );
5555:   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 );
5556: end;
5557:
5558:
5559: procedure SIRegister_uwinstr(CL: TPSCompiler);
5560: begin
5561:   Function StrDec( S : String ) : String;
5562:   Function uIsNumeric( var S : String; var X : Float ) : Boolean;
5563:   Function ReadNumFromEdit( Edit : TEdit ) : Float;
5564:   Procedure WriteNumToFile( var F : Text; X : Float );
5565: end;
5566:
5567: procedure SIRegister_utexplor(CL: TPSCompiler);
5568: begin
5569:   Function TeX_InitGraphics( FileName : String; PgWidth, PgHeight : Integer; Header : Boolean ) : Boolean;
5570:   Procedure TeX_SetWindow( X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean );

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5571: Procedure TeX_LeaveGraphics( Footer : Boolean)
5572: Procedure TeX_SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float)
5573: Procedure TeX_SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float)
5574: Procedure TeX_SetGraphTitle( Title : String)
5575: Procedure TeX_SetOxTitle( Title : String)
5576: Procedure TeX_SetOyTitle( Title : String)
5577: Procedure TeX_PlotOxAxis
5578: Procedure TeX_PlotOyAxis
5579: Procedure TeX_PlotGrid( Grid : TGrid)
5580: Procedure TeX_WriteGraphTitle
5581: Function TeX_SetMaxCurv( NCurv : Byte) : Boolean
5582: Procedure TeX_SetPointParam( CurvIndex, Symbol, Size : Integer)
5583: Procedure TeX_SetLineParam( CurvIndex, Style : Integer; Width : Float; Smooth : Boolean)
5584: Procedure TeX_SetCurvLegend( CurvIndex : Integer; Legend : String)
5585: Procedure TeX_SetCurvStep( CurvIndex, Step : Integer)
5586: Procedure TeX_PlotCurve( X, Y : TVector; Lb, Ub, CurvIndex : Integer)
5587: Procedure TeX_PlotCurveWithErrorBars( X, Y, S : TVector; Ns, Lb, Ub, CurvIndex : Integer)
5588: Procedure TeX_PlotFunc( Func : TFunc; X1, X2 : Float; Npt : Integer; CurvIndex : Integer)
5589: Procedure TeX_WriteLegend( NCurv : Integer; ShowPoints, ShowLines : Boolean)
5590: Procedure TeX_ConRec( Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix)
5591: Function Xcm( X : Float) : Float
5592: Function Ycm( Y : Float) : Float
5593: end;
5594:
5595: *-----*)
5596: procedure SIRegister_VarRecUtils(CL: TPSPascalCompiler);
5597: begin
5598:   TConstArray', 'array of TVarRec
5599:   Function CopyVarRec( const Item : TVarRec) : TVarRec
5600:   Function CreateConstArray( const Elements : array of const) : TConstArray
5601:   Procedure FinalizeVarRec( var Item : TVarRec)
5602:   Procedure FinalizeConstArray( var Arr : TConstArray)
5603: end;
5604:
5605: procedure SIRegister_StStrs(CL: TPSPascalCompiler);
5606: begin
5607:   Function HexBS( B : Byte) : ShortString
5608:   Function HexWS( W : Word) : ShortString
5609:   Function HexLS( L : LongInt) : ShortString
5610:   Function HexPtrS( P : Pointer) : ShortString
5611:   Function BinaryBS( B : Byte) : ShortString
5612:   Function BinaryWS( W : Word) : ShortString
5613:   Function BinaryLS( L : LongInt) : ShortString
5614:   Function OctalBS( B : Byte) : ShortString
5615:   Function OctalWS( W : Word) : ShortString
5616:   Function OctalLS( L : LongInt) : ShortString
5617:   Function Str2Int16S( const S : ShortString; var I : SmallInt) : Boolean
5618:   Function Str2WordS( const S : ShortString; var I : Word) : Boolean
5619:   Function Str2LongS( const S : ShortString; var I : LongInt) : Boolean
5620:   Function Str2Reals( const S : ShortString; var R : Double) : Boolean
5621:   Function Str2RealS( const S : ShortString; var R : Real) : Boolean
5622:   Function Str2ExtS( const S : ShortString; var R : Extended) : Boolean
5623:   Function Long2StrS( L : LongInt) : ShortString
5624:   Function Real2StrS( R : Double; Width : Byte; Places : ShortInt) : ShortString
5625:   Function Ext2StrS( R : Extended; Width : Byte; Places : ShortInt) : ShortString
5626:   Function ValPrepS( const S : ShortString) : ShortString
5627:   Function CharStrS( C : AnsiChar; Len : Cardinal) : ShortString
5628:   Function PadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5629:   Function PadS( const S : ShortString; Len : Cardinal) : ShortString
5630:   Function LeftPadChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5631:   Function LeftPadS( const S : ShortString; Len : Cardinal) : ShortString
5632:   Function TrimLeadS( const S : ShortString) : ShortString
5633:   Function TrimTrails( const S : ShortString) : ShortString
5634:   Function TrimS( const S : ShortString) : ShortString
5635:   Function TrimSpacesS( const S : ShortString) : ShortString
5636:   Function CenterChS( const S : ShortString; C : AnsiChar; Len : Cardinal) : ShortString
5637:   Function Centers( const S : ShortString; Len : Cardinal) : ShortString
5638:   Function EntabS( const S : ShortString; TabSize : Byte) : ShortString
5639:   Function DetabS( const S : ShortString; TabSize : Byte) : ShortString
5640:   Function ScrambleS( const S : ShortString) : ShortString
5641:   Function SubstituteS( const S, Key : ShortString) : ShortString
5642:   Function Filters( const S, Filters : ShortString) : ShortString
5643:   Function CharExistsS( const S : ShortString; C : AnsiChar) : Boolean
5644:   Function CharCounts( const S : ShortString; C : AnsiChar) : Byte
5645:   Function WordCountS( const S, WordDelims : ShortString) : Cardinal
5646:   Function WordPositionS( N : Cardinal; const S, WordDelims : ShortString; var Pos : Cardinal) : Boolean
5647:   Function ExtractWordS( N : Cardinal; const S, WordDelims : ShortString) : ShortString
5648:   Function AsciiCountS( const S, WordDelims : ShortString; Quote : AnsiChar) : Cardinal
5649:   Function AsciiPositionS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar;var Pos:Cardinal):Boolean
5650:   Function ExtractAsciiS(N:Cardinal;const S,WordDelims:ShortString;Quote:AnsiChar): ShortString
5651:   Procedure WordWrapS(const InSt: ShortString; var OutSt,Overlap: ShortString;
Margin:Cardinal;PadToMargin:Boolean)
5652:   Function CompStringS( const S1, S2 : ShortString) : Integer
5653:   Function CompUCStringS( const S1, S2 : ShortString) : Integer
5654:   Function SoundexS( const S : ShortString) : ShortString
5655:   Function MakeLetterSetS( const S : ShortString) : Longint
5656:   Procedure BMMakeTableS( const MatchString : shortString; var BT : BTable)
5657:   Function BMSearchS(var Buffer,BufLength:Card;var BT:BTable;const MatchString:ShortString;var
Pos:Cardinal):Bool;

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5658: Function BMSearchUCS(var Buffer,BufLength:Card;var BT:BTable;const MatchStr:ShortString;var
5659: Pos:Cardinal):Bool;
5660: Function DefaultExtensions( const Name, Ext : ShortString) : ShortString
5661: Function ForceExtensionS( const Name, Ext : shortString) : ShortString
5662: Function JustFilenameS( const PathName : ShortString) : ShortString
5663: Function JustNameS( const PathName : ShortString) : ShortString
5664: Function JustPathnameS( const PathName : ShortString) : ShortString
5665: Function AddBackSlashS( const DirName : ShortString) : ShortString
5666: Function CleanPathNameS( const PathName : ShortString) : ShortString
5667: Function HasExtensionS( const Name : ShortString; var DotPos : Cardinal) : Boolean
5668: Function CommaizeS( L : LongInt) : ShortString
5669: Function CommaizeChs( L : Longint; Ch : AnsiChar) : ShortString
5670: Function FloatFormS(const Mask:ShortString;R:TstFloat;const LtCurr,RtCurr:SString;Sep,
DecPt:Char):ShortString;
5671: Function LongIntFormS(const Mask:ShortString;L:LongInt;const LtCurr,
RtCurr:ShortString;Sep:AnsiChar):ShortString;
5672: Function StrChPosS( const P : ShortString; C : AnsiChar; var Pos : Cardinal) : Boolean
5673: Function StrnposS( const P, S : ShortString; var Pos : Cardinal) : Boolean
5674: Function StrStCopyS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5675: Function StrChInsertS( const S : ShortString; C : AnsiChar; Pos : Cardinal) : ShortString
5676: Function StrStInsertS( const S1, S2 : ShortString; Pos : Cardinal) : ShortString
5677: Function StrChDeleteS( const S : ShortString; Pos : Cardinal) : ShortString
5678: Function StrStDeleteS( const S : ShortString; Pos, Count : Cardinal) : ShortString
5679: Function ContainsOnlyS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5680: Function ContainsOtherThanS( const S, Chars : ShortString; var BadPos : Cardinal) : Boolean
5681: Function CopyLeftS( const S : ShortString; Len : Cardinal) : ShortString
5682: Function CopyMidS( const S : ShortString; First, Len : Cardinal) : ShortString
5683: Function CopyRights( const S : ShortString; First : Cardinal) : shortString
5684: Function CopyRightAbsS( const S : ShortString; NumChars : Cardinal) : ShortString
5685: Function CopyFromNthWordS(const S,WordDelims:string;const AWord:String;N:Card;var
SubString:ShortString):Bool;
5686: Function DeleteFromNthWordS(const S,WordDelims:String;AWord:ShortString;N:Card;var
SubStr:ShortString):Bool;
5687: Function CopyFromToWordsS(const S,WordDelims,Word1,Word2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5688: Function DeleteFromToWordsS(const S,WordDelims,Wrd1,Wrd2:ShortString;N1,N2:Card;var
SubString:ShortString):Bool;
5689: Function CopyWithinS( const S, Delimiter : ShortString; Strip : Boolean) : ShortString
5690: Function DeleteWithinS( const S, Delimiter : ShortString) : ShortString
5691: Function ExtractTokensS(const S,
Delims:ShortString;QuoteChar:AnsiChar;AllowNulls:Boolean;Tokens:TStrings):Cardinal
5692: Function IsChAlphasS( C : Char) : Boolean
5693: Function IsChNumericS( C : Char; const Numbers : ShortString) : Boolean
5694: Function IsChAlphaNumerics( C : Char; const Numbers : shortString) : Boolean
5695: Function IsStrAlphaS( const S : Shortstring) : Boolean
5696: Function IsStrNumericS( const S, Numbers : ShortString) : Boolean
5697: Function IsStrAlphaNumericS( const S, Numbers : ShortString) : Boolean
5698: Function LastWordS( const S, WordDelims, AWord : ShortString; var Position : Cardinal) : Boolean
5699: Function LastWordAbsS( const S, WordDelims : ShortString; var Position : Cardinal) : Boolean
5700: Function LastStringS( const S, AString : ShortString; var Position : Cardinal) : Boolean
5701: Function LeftTrimCharsS( const S, Chars : ShortString) : ShortString
5702: Function KeepCharsS( const S, Chars : ShortString) : ShortString
5703: Function RepeatStringS(const RepeatString:ShortString;var Repetitions: Cardinal; MaxLen :
Cardinal):ShortString;
5704: Function ReplaceStringS(const S,OldStr,NewStr:ShortString;N:Cardinal;var
Replacements:Cardinal):ShortString;
5705: Function ReplaceStringAllS(const S,OldString,NewString:ShortString;var Replacements:Cardinal):ShortString;
5706: Function ReplaceWordsS(const S,WordDelims,OldWord,NewW:SString;N:Cardinal;var
Replacements:Cardinal):ShortString
5707: Function ReplaceWordAllS(const S,WordDelims,OldWord,NewWord:ShortString;var
Replacements:Cardinal):ShortString
5708: Function RightTrimCharsS( const S, Chars : ShortString) : ShortString
5709: Function StrWithinS(const S,SearchStr: ShortString;Start:Cardinal;var Position:Cardinal):boolean
5710: Function TrimCharsS( const S, Chars : ShortString) : ShortString
5711: Function WordPosS(const S,WordDelims,AWord:ShortString;N:Cardinal; var Position: Cardinal):Boolean
5712: end;
5713;
5714;
5715: *****unit uPSI_StUtils; from Systools4*****
5716: Function SignL( L : LongInt) : Integer
5717: Function SignF( F : Extended) : Integer
5718: Function MinWord( A, B : Word) : Word
5719: Function MidWord( W1, W2, W3 : Word) : Word
5720: Function MaxWord( A, B : Word) : Word
5721: Function MinLong( A, B : LongInt) : LongInt
5722: Function MidLong( L1, L2, L3 : LongInt) : LongInt
5723: Function MaxLong( A, B : LongInt) : LongInt
5724: Function MinFloat( F1, F2 : Extended) : Extended
5725: Function MidFloat( F1, F2, F3 : Extended) : Extended
5726: Function MaxFloat( F1, F2 : Extended) : Extended
5727: Function MakeInteger16( H, L : Byte) : SmallInt
5728: Function MakeWordS( H, L : Byte) : Word
5729: Function SwapNibble( B : Byte) : Byte
5730: Function SwapWord( L : LongInt) : LongInt
5731: Procedure SetFlag( var Flags : Word; FlagMask : Word)
5732: Procedure ClearFlag( var Flags : Word; FlagMask : Word)
5733: Function FlagIsSet( Flags, FlagMask : Word) : Boolean
5734: Procedure SetByteFlag( var Flags : Byte; FlagMask : Byte)

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5735: Procedure ClearByteFlag( var Flags : Byte; FlagMask : Byte)
5736: Function ByteFlagIsSet( Flags, FlagMask : Byte) : Boolean
5737: Procedure SetLongFlag( var Flags : LongInt; FlagMask : LongInt)
5738: Procedure ClearLongFlag( var Flags : LongInt; FlagMask : LongInt)
5739: Function LongFlagIsSet( Flags, FlagMask : LongInt) : Boolean
5740: Procedure ExchangeBytes( var I, J : Byte)
5741: Procedure ExchangeWords( var I, J : Word)
5742: Procedure ExchangeLongInts( var I, J : LongInt)
5743: Procedure ExchangeStructs( var I, J, Size : Cardinal)
5744: Procedure FillWord( var Dest, Count : Cardinal; Filler : Word)
5745: Procedure FillStruct( var Dest, Count : Cardinal; var Filler, FillerSize : Cardinal)
5746: Function AddWordToPtr( P : __Pointer; W : Word) : __Pointer
5747: //*****uPSI_STFIN*****
5748: Function AccruedInterestMaturity(Issue,Maturity:TStDate;Rate,Par:Extended;Basis: TStBasis) : Extended
5749: Function AccruedInterestPeriodic(Issue,Settlement,Maturity:TStDate;Rate,
      Par:Extended;Frequency:TStFrequency; Basis : TStBasis) : Extended
5750: Function BondDuration( Settlement,Maturity:TStDate;Rate,
      Yield:Ext;Frequency:TStFrequency;Basis:TStBasis):Extended
5751: Function BondPrice(Settlement,Maturity:TStDate;Rate,Yield,Redempt:Ext;Freq:TStFrequency;Basis:TStBasis):
      Extended
5752: Function CumulativeInterest( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5753: Function CumulativePrincipal( Rate : Extended; NPeriods : Integer; PV : Extended; StartPeriod, EndPeriod :
      Integer; Frequency : TStFrequency; Timing : TStPaymentTime) : Extended
5754: Function DayCount( Day1, Day2 : TStDate; Basis : TStBasis) : LongInt
5755: Function DecliningBalance( Cost, Salvage : Extended; Life, Period, Month : Integer) : Extended
5756: Function DiscountRate(Settlement,Maturity:TStDate; Price,Redemption:Extended;Basis:TStBasis) : Extended;
5757: Function DollarToDecimal( FracDollar : Extended; Fraction : Integer) : Extended
5758: Function DollarToDecimalText( DecDollar : Extended) : string
5759: Function DollarToFraction( DecDollar : Extended; Fraction : Integer) : Extended
5760: Function DollarToFractionStr( FracDollar : Extended; Fraction : Integer) : string
5761: Function EffectiveInterestRate( NominalRate : Extended; Frequency : TStFrequency) : Extended
5762: Function FutureValueS(Rate:Extended;NPeriods:Int;Pmt,
      PV:Extended;Freq:TStFreq;Timing:TStPaymentTime):Extended
5763: Function FutureValueSchedule( Principal : Extended; const Schedule : array of Double) : Extended
5764: Function FutureValueSchedule16( Principal : Extended; const Schedule, NRates : Integer) : Extended
5765: Function InterestRateS(NPeriods:Int;Pmt,PV,
      FV:Extended;Freq:TStFrequency;Timing:TStPaymentTime;Guess:Extended):Extend;
5766: Function InternalRateOfReturn( const Values : array of Double; Guess : Extended) : Extended
5767: Function InternalRateOfReturn16( const Values, NValues : Integer; Guess : Extended) : Extended
5768: Function IsCardValid( const S : string) : Boolean
5769: Function ModifiedDuration(Settlement,Maturity:TStDate;Rate,
      Yield:Extended;Freq:TStFrequency;Basis:TStBasis):Extended;
5770: Function ModifiedIRR(const Values : array of Double; FinanceRate,ReinvestRate: Extended) : Extended
5771: Function ModifiedIRR16(const Values,NValues:Integer; FinanceRate,ReinvestRate: Extended) : Extended
5772: Function NetPresentValueS( Rate : Extended; const Values : array of Double) : Extended
5773: Function NetPresentValue16( Rate : Extended; const Values, NValues : Integer) : Extended
5774: Function NominalInterestRate( EffectRate : Extended; Frequency : TStFrequency) : Extended
5775: Function NonperiodicIRR(const Values:array of Double;const Dates:array of TStDate;Guess:Extended):Extended;
5776: Function NonperiodicNPV(Rate:Extended;const Values: array of Double;const Dates:array of TStDate):Extended;
5777: Function Payment( Rate : Extended; NPeriods : Integer; PV, FV : Extended; Frequency : TStFrequency; Timing
      : TStPaymentTime) : Extended
5778: Function Periods( Rate:Extended;Pmt,PV,FV:Extended;Frequency:TStFrequency;Timing:TStPaymentTime):Integer;
5779: Function PresentValueS( Rate: Extended; NPeriods: Integer; Pmt, FV: Extended; Frequency: TStFrequency;
      Timing: TStPaymentTime) : Extended
5780: Function ReceivedAtMaturity(Settlement,Maturity:TStDate;Invest,Discount:Extended;Basis:TStBasis):Extended;
5781: Function RoundToDecimal( Value : Extended; Places : Integer; Bankers : Boolean) : Extended
5782: Function TBillEquivYield( Settlement, Maturity : TStDate; Discount : Extended) : Extended
5783: Function TBillPrice( Settlement, Maturity : TStDate; Discount : Extended) : Extended
5784: Function TBillyield( Settlement, Maturity : TStDate; Price : Extended) : Extended
5785: Function VariableDecliningBalance( Cost, Salvage : Extended; Life : Integer; StartPeriod, EndPeriod,
      Factor : Extended; NoSwitch : boolean) : Extended
5786: Function YieldDiscounted(Settlement,Maturity:TStDate;Price,Redemption:Extended;Basis:TStBasis):Extended;
5787: Function YieldPeriodic(Settlement,Maturity:TStDate;Rate,Price,
      Redemption:Extended;Freq:TStFrequency;Basis:TStBasis):Extended
5788: Function YieldMaturity(Issue,Settlement,Maturity:TStDate;Rate,Price:Extended;Basis:TStBasis):Extended;
5789:
5790: //*****unit uPSI_StAstroP;
5791: Procedure PlanetsPos( JD : Double; var PA : TStPlanetsArray)
5792: //*****unit unit uPSI_StStat; Statistic Package of SysTools*****
5793: Function AveDev( const Data : array of Double) : Double
5794: Function AveDev16( const Data, NData : Integer) : Double
5795: Function Confidence( Alpha, StandardDev : Double; Size : LongInt) : Double
5796: Function Correlation( const Data1, Data2 : array of Double) : Double
5797: Function Correlation16( const Data1, Data2, NData : Integer) : Double
5798: Function Covariance( const Data1, Data2 : array of Double) : Double
5799: Function Covariance16( const Data1, Data2, NData : Integer) : Double
5800: Function DevSq( const Data : array of Double) : Double
5801: Function DevSql16( const Data, NData : Integer) : Double
5802: Procedure Frequency(const Data:array of Double;const Bins:array of Double;var Counts: array of LongInt);
5803: //Procedure Frequency16( const Data, NData : Integer; const Bins, NBins : Integer; var Counts)
5804: Function GeometricMeanS( const Data : array of Double) : Double
5805: Function GeometricMean16( const Data, NData : Integer) : Double
5806: Function HarmonicMeanS( const Data : array of Double) : Double
5807: Function HarmonicMean16( const Data, NData : Integer) : Double
5808: Function Largest( const Data : array of Double; K : Integer) : Double
5809: Function Largest16( const Data, NData : Integer; K : Integer) : Double
5810: Function MedianS( const Data : array of Double) : Double
5811: Function Median16( const Data, NData : Integer) : Double

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5812: Function Mode( const Data : array of Double) : Double
5813: Function Mode16( const Data, NData : Integer) : Double
5814: Function Percentile( const Data : array of Double; K : Double) : Double
5815: Function Percentile16( const Data, NData : Integer; K : Double) : Double
5816: Function PercentRank( const Data : array of Double; X : Double) : Double
5817: Function PercentRank16( const Data, NData : Integer; X : Double) : Double
5818: Function Permutations( Number, NumberChosen : Integer) : Extended
5819: Function Combinations( Number, NumberChosen : Integer) : Extended
5820: Function Factorials( N : Integer) : Extended
5821: Function Rank( Number : Double; const Data : array of Double; Ascending : Boolean) : Integer
5822: Function Rank16( Number : Double; const Data, NData : Integer; Ascending : Boolean) : Integer
5823: Function Smallest( const Data : array of Double; K : Integer) : Double
5824: Function Smallest16( const Data, NData : Integer; K : Integer) : Double
5825: Function TrimMean( const Data : array of Double; Percent : Double) : Double
5826: Function TrimMean16( const Data, NData : Integer; Percent : Double) : Double
5827: AddTypes('TStLinEst', 'record B0 : Double; B1 : double; seB0 : double; seB1 : double; R2 : Double; sigma : Double; SSr : double; SSE : Double; F0 : Double; df : Integer; end')
5828: + '1 : Double; LF : TStLinEst; ErrorStats:Bool';
5829: Procedure LinEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool);
5830: Procedure LogEst(const KnownY:array of Double;const KnownX:array of Double;var LF:TStLinEst;ErrorStats:Bool);
5831: Function Forecast(X: Double; const KnownY: array of Double; const KnownX: array of Double) : Double
5832: Function ForecastExponential(X:Double;const KnownY:array of Double;const KnownX:array of Double):Double
5833: Function Intercept( const KnownY : array of Double; const KnownX : array of Double) : Double
5834: Function RSquared( const KnownY : array of Double; const KnownX : array of Double) : Double
5835: Function Slope( const KnownY : array of Double; const KnownX : array of Double) : Double
5836: Function StandardErrorY( const KnownY : array of Double; const KnownX : array of Double) : Double
5837: Function BetaDist( X, Alpha, Beta, A, B : Single) : Single
5838: Function BetaInv( Probability, Alpha, Beta, A, B : Single) : Single
5839: Function BinomDist( Numbers, Trials : Integer; ProbabilityS : Single; Cumulative : Boolean) : Single
5840: Function CritBinom( Trials : Integer; ProbabilityS, Alpha : Single) : Integer
5841: Function ChiDist( X : Single; DegreesFreedom : Integer) : Single
5842: Function ChiInv( Probability : Single; DegreesFreedom : Integer) : Single
5843: Function ExponDist( X, Lambda : Single; Cumulative : Boolean) : Single
5844: Function FDist( X : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5845: Function FInv( Probability : Single; DegreesFreedom1, DegreesFreedom2 : Integer) : Single
5846: Function LogNormDist( X, Mean, StandardDev : Single) : Single
5847: Function LogInv( Probability, Mean, StandardDev : Single) : Single
5848: Function NormDist( X, Mean, StandardDev : Single; Cumulative : Boolean) : Single
5849: Function NormInv( Probability, Mean, StandardDev : Single) : Single
5850: Function NormSDist( Z : Single) : Single
5851: Function NormSInv( Probability : Single) : Single
5852: Function Poisson( X : Integer; Mean : Single; Cumulative : Boolean) : Single
5853: Function TDist( X : Single; DegreesFreedom : Integer; TwoTails : Boolean) : Single
5854: Function TInv( Probability : Single; DegreesFreedom : Integer) : Single
5855: Function Erfc( X : Single) : Single
5856: Function GammaLn( X : Single) : Single
5857: Function LargestSort( const Data : array of Double; K : Integer) : Double
5858: Function SmallestSort( const Data : array of double; K : Integer) : Double
5859:
5860: procedure SIRegister_TSTSorter(CL: TPSPascalCompiler);
5861: Function OptimumHeapToUse( RecLen : Cardinal; NumRecs : LongInt) : LongInt
5862: Function MinimumHeapToUse( RecLen : Cardinal) : LongInt
5863: Function MergeInfo( MaxHeap : LongInt; RecLen : Cardinal; NumRecs : LongInt) : TMergeInfo
5864: Function DefaultMergeName( MergeNum : Integer) : string
5865: Procedure ArraySort( var A, RecLen, NumRecs : Cardinal; Compare : TUntypedCompareFunc)
5866:
5867: procedure SIRegister_StAstro(CL: TPSPascalCompiler);
5868: Function AmountOfSunlight( LD : TStDate; Longitude, Latitude : Double) : TStTime
5869: Function FixedRiseSet( LD : TStDate; RA, DC, Longitude, Latitude : Double) : TStRiseSetRec
5870: Function SunPos( UT : TStDateTimeRec) : TStPosRec
5871: Function SunPosPrim( UT : TStDateTimeRec) : TStSunXYZRec
5872: Function SunRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5873: Function Twilight( LD : TStDate; Longitude, Latitude : Double; TwiType:TStTwilight):TStRiseSetRec
5874: Function LunarPhase( UT : TStDateTimeRec) : Double
5875: Function MoonPos( UT : TStDateTimeRec) : TStMoonPosRec
5876: Function MoonRiseSet( LD : TStDate; Longitude, Latitude : Double) : TStRiseSetRec
5877: Function FirstQuarter( D : TStDate) : TStLunarRecord
5878: Function FullMoon( D : TStDate) : TStLunarRecord
5879: Function LastQuarter( D : TStDate) : TStLunarRecord
5880: Function NewMoon( D : TStDate) : TStLunarRecord
5881: Function NextFirstQuarter( D : TStDate) : TStDateTimeRec
5882: Function NextFullMoon( D : TStDate) : TStDateTimeRec
5883: Function NextLastQuarter( D : TStDate) : TStDateTimeRec
5884: Function NextNewMoon( D : TStDate) : TStDateTimeRec
5885: Function PrevFirstQuarter( D : TStDate) : TStDateTimeRec
5886: Function PrevFullMoon( D : TStDate) : TStDateTimeRec
5887: Function PrevLastQuarter( D : TStDate) : TStDateTimeRec
5888: Function PrevNewMoon( D : TStDate) : TStDateTimeRec
5889: Function SiderealTime( UT : TStDateTimeRec) : Double
5890: Function Solstice( Y, Epoch : Integer; Summer : Boolean) : TStDateTimeRec
5891: Function Equinox( Y, Epoch : Integer; Vernal : Boolean) : TStDateTimeRec
5892: Function SEaster( Y, Epoch : Integer) : TStDate
5893: Function DateToAjd( D : TDate) : Double
5894: Function HoursMin( RA : Double) : ShortString
5895: Function DegrMin( DC : Double) : ShortString
5896: Function AJDToDate( D : Double) : TDate
5897:
5898: Procedure SIRegister_StDate(CL: TPSPascalCompiler);

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5899: Function CurrentDate : TStDate
5900: Function StValidDate( Day, Month, Year, Epoch : Integer ) : Boolean
5901: Function DMYtoStDate( Day, Month, Year, Epoch : Integer ) : TStDate
5902: Procedure StDateToDMY( Julian : TStDate; var Day, Month, Year : Integer )
5903: Function StIncDate( Julian : TStDate; Days, Months, Years : Integer ) : TStDate
5904: Function IncDateTrunc( Julian : TStDate; Months, Years : Integer ) : TStDate
5905: Procedure StDateDiff( Date1, Date2 : TStDate; var Days, Months, Years : Integer )
5906: Function BondDateDiff( Date1, Date2 : TStDate; DayBasis : TStBondDateType ) : TStDate
5907: Function WeekOfYear( Julian : TStDate ) : Byte
5908: Function AstJulianDate( Julian : TStDate ) : Double
5909: Function AstJulianDateToStDate( AstJulian : Double; Truncate : Boolean ) : TStDate
5910: Function AstJulianDatePrim( Year, Month, Date : Integer; UT : TStTime ) : Double
5911: Function StDayOfWeek( Julian : TStDate ) : TStDayType
5912: Function DayOfWeekDMY( Day, Month, Year, Epoch : Integer ) : TStDayType
5913: Function StIsLeapYear( Year : Integer ) : Boolean
5914: Function StDaysInMonth( Month : Integer; Year, Epoch : Integer ) : Integer
5915: Function ResolveEpoch( Year, Epoch : Integer ) : Integer
5916: Function ValidTime( Hours, Minutes, Seconds : Integer ) : Boolean
5917: Procedure StTimeToHMS( T : TStTime; var Hours, Minutes, Seconds : Byte )
5918: Function HMStoStTime( Hours, Minutes, Seconds : Byte ) : TStTime
5919: Function CurrentTime : TStTime
5920: Procedure TimeDiff( Time1, Time2 : TStTime; var Hours, Minutes, Seconds : Byte )
5921: Function StIncTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5922: Function DecTime( T : TStTime; Hours, Minutes, Seconds : Byte ) : TStTime
5923: Function RoundToNearestHour( T : TStTime; Truncate : Boolean ) : TStTime
5924: Function RoundToNearestMinute( const T : TStTime; Truncate : Boolean ) : TStTime
5925: Procedure DateTimeDiff( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;var Days:LongInt;var Secs:LongInt )
5926: Procedure IncDateTime( const DT1:TStDateTimeRec;var DT2:TStDateTimeRec;Days:Integer;Secs:LongInt )
5927: Function DateTimeToStDate( DT : TDateTime ) : TStDate
5928: Function DateTimeToStTime( DT : TDateTime ) : TStTime
5929: Function StDateToDate( D : TStDate ) : TDateTime
5930: Function StTimeToDate( T : TStTime ) : TDateTime
5931: Function Convert2ByteDate( TwoByteDate : Word ) : TStDate
5932: Function Convert4ByteDate( FourByteDate : TStDate ) : Word
5933:
5934: Procedure SIRegister_StDateSt(CL: TPSCompiler);
5935: Function DateStringHMStoAstJD( const Picture, DS : string; H, M, S, Epoch : integer ) : Double
5936: Function MonthToString( const Month : Integer ) : string
5937: Function DateStringToStDate( const Picture, S : string; Epoch : Integer ) : TStDate
5938: Function DateStringToDMY( const Picture,S:string;Epoch:Integer; var D, M, Y : Integer):Boolean
5939: Function StDateToString( const Picture : string; const Julian : TStDate; Pack : Boolean):string
5940: Function DayOfWeekToString( const WeekDay : TStDayType ) : string
5941: Function DMYToDateString( const Picture:string;Day,Month,Year,Epoch:Integer;Pack:Boolean): string;
5942: Function CurrentDateString( const Picture : string; Pack : Boolean ) : string
5943: Function CurrentTimeString( const Picture : string; Pack : Boolean ) : string
5944: Function TimeStringToHMS( const Picture, St : string; var H, M, S : Integer ) : Boolean
5945: Function TimeStringToStTime( const Picture, S : string ) : TStTime
5946: Function StTimeToAmPmString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5947: Function StTimeToString( const Picture : string; const T : TStTime; Pack : Boolean ) : string
5948: Function DateStringIsBlank( const Picture, S : string ) : Boolean
5949: Function InternationalDate( ForceCentury : Boolean ) : string
5950: Function InternationalLongDate( ShortNames : Boolean; ExcludeDOW : Boolean ) : string
5951: Function InternationalTime( ShowSeconds : Boolean ) : string
5952: Procedure ResetInternationalInfo
5953:
5954: procedure SIRegister_StBase(CL: TPSCompiler);
5955: Function DestroyNode( Container : TStContainer; Node : TStNode; OtherData : Pointer ) : Boolean
5956: Function AnsiUpperCaseShort32( const S : string ) : string
5957: Function AnsiCompareTextShort32( const S1, S2 : string ) : Integer
5958: Function AnsiCompareStrShort32( const S1, S2 : string ) : Integer
5959: Function HugeCompressRLE( const InBuffer, InLen : Longint; var OutBuffer ) : Longint
5960: Function HugeDecompressRLE( const InBuffer, InLen : Longint; var OutBuffer,OutLen:LongInt): Longint
5961: Procedure HugeFillChar( var Dest, Count : Longint; Value : Byte )
5962: Procedure HugeFillStruc( var Dest, Count : Longint; const Value, ValSize : Cardinal )
5963: Function Upcase( C : AnsiChar ) : AnsiChar
5964: Function LoCase( C : AnsiChar ) : AnsiChar
5965: Function CompareLetterSets( Set1, Set2 : LongInt ) : Cardinal
5966: Function CompStruct( const S1, S2, Size : Cardinal ) : Integer
5967: Function Search( const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardinal):Bool;
5968: Function StSearch(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5969: Function SearchUC(const Buffer,BufLength:Cardinal;const Match,MatLength:Cardinal;var Pos:Cardi):Boolean
5970: Function IsOrInheritsFrom( Root, Candidate : TClass ) : boolean
5971: Procedure RaiseContainerError( Code : longint )
5972: Procedure RaiseContainerErrorFmt( Code : Longint; Data : array of const )
5973: Function ProductOverflow( A, B : LongInt ) : Boolean
5974: Function StNewStr( S : string ) : PShortString
5975: Procedure StDisposeStr( PS : PShortString )
5976: Procedure VaiLongInt( S : ShortString; var LI : Longint; var ErrorCode : integer )
5977: Procedure ValSmallint( const S : ShortString; var SI : smallint; var ErrorCode : integer )
5978: Procedure ValWord( const S : ShortString; var Wd : word; var ErrorCode : integer )
5979: Procedure RaiseStError( ExceptionClass : EStExceptionClass; Code : LongInt )
5980: Procedure RaiseStWin32Error( ExceptionClass : EStExceptionClass; Code : LongInt )
5981: Procedure RaiseStWin32ErrorEx( ExceptionClass : EStExceptionClass; Code : LongInt; Info : string )
5982:
5983: procedure SIRegister_usvd(CL: TPSCompiler);
5984: begin
5985: Procedure SV_DecomP( A : TMATRIX; Lb, Ub1, Ub2 : Integer; S : TVector; V : TMATRIX )
5986: Procedure SV_SetZero( S : TVector; Lb, Ub : Integer; Tol : Float )
5987: Procedure SV_Solve(U:TMATRIX; S:TVector;V:TMATRIX;B:TVector;Lb,Ub1,Ub2:Integer;X:TVector );

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5988: Procedure SV_Approx( U : TMatrix; S : TVector; V : TMatrix; Lb, Ub1, Ub2 : Integer; A : TMatrix)
5989: Procedure RKF45(F:TDiffEqs;Neqn:Int;Y,Yp:TVector;var T:Float;Tout,RelErr,AbsErr:Float;var Flag:Int;
5990: end;
5991:
5992: //*****unit unit ; StMath Package of SysTools*****
5993: Function IntPowerS( Base : Extended; Exponent : Integer) : Extended
5994: Function PowerS( Base, Exponent : Extended) : Extended
5995: Function StInvCos( X : Double) : Double
5996: Function StInvSin( Y : Double) : Double
5997: Function StInvTan2( X, Y : Double) : Double
5998: Function StTan( A : Double) : Double
5999: Procedure DumpException; //unit STExpEng;
6000: Function HexifyBlock( var Buffer, BufferSize : Integer) : string
6001:
6002: //*****unit unit ; StCRC Package of SysTools*****
6003: Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6004: Function Adler32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6005: Function Adler32OfFile( FileName : AnsiString) : LongInt
6006: Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6007: Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6008: Function Crc16OfFile( FileName : AnsiString) : Cardinal
6009: Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt) : LongInt
6010: Function Crc32OfStream( Stream : TStream; CurCrc : LongInt) : LongInt
6011: Function Crc32OfFile( FileName : AnsiString) : LongInt
6012: Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6013: Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal) : Cardinal
6014: Function InternetSumOfFile( FileName : AnsiString) : Cardinal
6015: Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal) : Cardinal
6016: Function Kermit16OfFile( Stream : TStream; CurCrc : Cardinal) : Cardinal
6017: Function Kermit16OfFile( FileName : AnsiString) : Cardinal
6018:
6019: //*****unit unit ; StBCD Package of SysTools*****
6020: Function AddBcd( const B1, B2 : Tbcds) : Tbcds
6021: Function SubBcd( const B1, B2 : Tbcds) : Tbcds
6022: Function MulBcd( const B1, B2 : Tbcds) : Tbcds
6023: Function DivBcd( const B1, B2 : Tbcds) : Tbcds
6024: Function ModBcd( const B1, B2 : Tbcds) : Tbcds
6025: Function NegBcd( const B : Tbcds) : Tbcds
6026: Function AbsBcd( const B : Tbcds) : Tbcds
6027: Function FracBcd( const B : Tbcds) : Tbcds
6028: Function IntBcd( const B : Tbcds) : Tbcds
6029: Function RoundDigitsBcd( const B : Tbcds; Digits : Cardinal) : Tbcds
6030: Function RoundPlacesBcd( const B : Tbcds; Places : Cardinal) : Tbcds
6031: Function ValBcd( const S : string) : Tbcds
6032: Function LongBcd( L : LongInt) : Tbcds
6033: Function ExtBcd( E : Extended) : Tbcds
6034: Function ExpBcd( const B : Tbcds) : Tbcds
6035: Function LnBcd( const B : Tbcds) : Tbcds
6036: Function IntPowBcd( const B : Tbcds; E : LongInt) : Tbcds
6037: Function PowBcd( const B, E : Tbcds) : Tbcds
6038: Function SqrtBcd( const B : Tbcds) : Tbcds
6039: Function CmpBcd( const B1, B2 : Tbcds) : Integer
6040: Function EqDigitsBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6041: Function EqPlacesBcd( const B1, B2 : Tbcds; Digits : Cardinal) : Boolean
6042: Function IsIntBcd( const B : Tbcds) : Boolean
6043: Function TruncBcd( const B : Tbcds) : LongInt
6044: Function BcdExt( const B : Tbcds) : Extended
6045: Function RoundBcd( const B : Tbcds) : LongInt
6046: Function StrBcd( const B : Tbcds; Width, Places : Cardinal) : string
6047: Function StrExpBcd( const B : Tbcds; Width : Cardinal) : string
6048: Function FormatBcd( const Format : string; const B : Tbcds) : string
6049: Function StrGeneralBcd( const B : Tbcds) : string
6050: Function FloatFormBcd(const Mask:string;B:Tbcds;const LtCurr,RtCurr:string;Sep,DecPt:AnsiChar):string
6051: Procedure ConvertBcd( const SrcB, SrcSize : Byte; var DestB, DestSize : Byte)
6052:
6053: //*****unit unit ; StTxtDat; TStTextDataRecordSet Package of SysTools*****
6054: Procedure StParseLine( const Data : AnsiString; Schema : TStTextDataSchema; Result : TStrings)
6055: Function StFieldTypeToStr( FieldType : TStSchemaFieldType) : AnsiString
6056: Function StStrToFieldType( const S : AnsiString) : TStSchemaFieldType
6057: Function StDeEscape( const EscStr : AnsiString) : Char
6058: Function StDoEscape( Delim : Char) : AnsiString
6059: Function StTrimTrailingChars( const S : AnsiString; Trailer : Char) : AnsiString
6060: Function AnsiHashText( const S : string; Size : Integer) : Integer
6061: Function AnsiHashStr( const S : string; Size : Integer) : Integer
6062: Function AnsiELFHashText( const S : string; Size : Integer) : Integer
6063: Function AnsiELFHashStr( const S : string; Size : Integer) : Integer
6064:
6065: //*****unit unit ; STNetCon Package of SysTools*****
6066: with AddClassN(FindClass('TStComponent'), 'TStNetConnection') do begin
6067:   Constructor Create( AOwner : TComponent)
6068:   Function Connect : DWord
6069:   Function Disconnect : DWord
6070:   RegisterProperty('Password', 'String', iptrw);
6071:   Property('UserName', 'String', iptrw);
6072:   Property('ConnectOptions', 'TStNetConnectOptionsSet', iptrw);
6073:   Property('DisconnectOptions', 'TStNetDisconnectOptionsSet', iptrw);
6074:   Property('LocalDevice', 'String', iptrw);
6075:   Property('ServerName', 'String', iptrw);
6076:   Property('ShareName', 'String', iptrw);

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6077:   Property('OnConnect', 'TNotifyEvent', iptrw);
6078:   Property('OnConnectFail', 'TOnConnectFailEvent', iptrw);
6079:   Property('OnConnectCancel', 'TOnConnectCancelEvent', iptrw);
6080:   Property('OnDisconnect', 'TNotifyEvent', iptrw);
6081:   Property('OnDisconnectFail', 'TOnDisconnectFailEvent', iptrw);
6082:   Property('OnDisconnectCancel', 'TOnDisconnectCancelEvent', iptrw);
6083: end;
6084: //***** Thread Functions Context of Win API --- more objects in SyncObjs.pas
6085: / 153 unit uPSI_SyncObjs; unit uPSIParallelJobs;
6086: Procedure InitializeCriticalSection( var lpCriticalSection : TRTCriticalSection)
6087: Procedure EnterCriticalSection( var lpCriticalSection : TRTCriticalSection)
6088: Procedure LeaveCriticalSection( var lpCriticalSection : TRTCriticalSection)
6089: Function InitializeCriticalSectionAndSpinCount(var
6090: lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):BOOL;
6091: Function SetCriticalSectionSpinCount(var lpCriticalSection:TRTCriticalSection;dwSpinCount:DWORD):DWORD;
6092: Function TryEnterCriticalSection( var lpCriticalSection : TRTCriticalSection) : BOOL
6093: Procedure DeleteCriticalSection( var lpCriticalSection : TRTCriticalSection)
6094: Function GetThreadContext( hThread : THandle; var lpContext : TContext) : BOOL
6095: Function SetThreadContext( hThread : THandle; const lpContext : TContext) : BOOL
6096: Function SuspendThread( hThread : THandle) : DWORD
6097: Function ResumeThread( hThread : THandle) : DWORD
6098: Function CreateThread2(ThreadFunc: TThreadFunction2; thrid: DWord) : THandle
6099: Function GetCurrentThread : THandle
6100: Procedure ExitThread( dwExitCode : DWORD)
6101: Function TerminateThread( hThread : THandle; dwExitCode : DWORD) : BOOL
6102: Procedure EndThread(ExitCode: Integer);
6103: Function WaitForSingleObject( hHandle : THandle; dwMilliseconds : DWORD) : DWORD
6104: Function MakeProcInstance( Proc : FARPROC; Instance : THandle) : FARPROC
6105: Procedure FreeProcInstance( Proc : FARPROC)
6106: Procedure FreeLibraryAndExitThread( hLibModule : HMODULE; dwExitCode : DWORD)
6107: Function DisableThreadLibraryCalls( hLibModule : HMODULE) : BOOL
6108: Procedure ParallelJob( ASelf : TObject; ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6109: Procedure ParallelJob1(ATarget : Pointer; AParam : Pointer; ASafeSection : boolean);
6110: Procedure ParallelJob2(AJobGroup:TJobsGroup;ASelf:TObject;ATarget:Ptr;AParam:Pointer;ASafeSection:bool;
6111: Procedure ParallelJob3( AJobGroup:TJobsGroup;ATarget:Pointer;AParam:Pointer;ASafeSection: boolean);
6112: Function CreateParallelJob(ASelf:TObject;ATarget:Pointer;AParam:Ptr;ASafeSection:bool:TParallelJob;
6113: Function CreateParallelJob1(ATarget:Pointer; AParam:Pointer; ASafeSection : boolean) : TParallelJob;
6114: Function CurrentParallelJobInfo : TParallelJobInfo
6115: Function ObtainParallelJobInfo : TParallelJobInfo
6116: Procedure GetSystemInfo( var lpSystemInfo : TSystemInfo)');
6117: Function IsProcessorFeaturePresent( ProcessorFeature : DWORD) : BOOL';
6118: Function SetStdHandle( nStdHandle : DWORD; hHandle : THandle) : BOOL';
6119: Function DeviceIoControl( hDevice : THandle; dwIoControlCode : DWORD; lpInBuffer : TObject; nInBufferSize
6120: : DWORD; lpOutBuffer: TObject; nOutBufferSize: DWORD; var lpBytesReturned: DWORD; lpOverlapped :
6121: TOverlapped) : BOOL';
6120: Function SetFileTime( hFile : THandle; lpCreationTime, lpLastAccessTime, lpLastWriteTime : TFileTime) :
6121: BOOL');
6121: Function DuplicateHandle( hSourceProcessHandle, hSourceHandle, hTargetProcessHandle : THandle;
6122: lpTargetHandle : THandle; dwDesiredAccess : DWORD; bInheritHandle : BOOL; dwOptions : DWORD) : BOOL';
6122: Function GetHandleInformation( hObject : THandle; var lpdwFlags : DWORD) : BOOL';
6123: Function SetHandleInformation( hObject : THandle; dwMask : DWORD; dwFlags : DWORD) : BOOL';
6124:
6125: *****unit uPSI_JclMime;
6126: Function MimeEncodeString( const S : AnsiString) : AnsiString
6127: Function MimeDecodeString( const S : AnsiString) : AnsiString
6128: Procedure MimeEncodeStream( const InputStream : TStream; const OutputStream : TStream)
6129: Procedure MimeDecodeStream( const InputStream : TStream; const OutputStream : TStream)
6130: Function MimeEncodedSize( const I : Cardinal) : Cardinal
6131: Function MimeDecodedSize( const I : Cardinal) : Cardinal
6132: Procedure MimeEncode( var InputBuffer : string; const InputByteCount : Cardinal; var OutputBuffer)
6133: Function MimeDecode(var InputBuffer:string;const InputBytesCount:Cardinal;var OutputBuffer):Cardinal;
6134: Function MimeDecodePartial(var InputBuffer:string;const InputBytesCount:Cardinal;var
6135: OutputBuffer:string;var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : Cardinal
6135: Function MimeDecodePartialEnd(var OutputBuf:string;const ByteBuf:Card;const ByteBufferSpace:Card):
6136: Cardinal;
6137: *****unit uPSI_JclPrint;
6138: Procedure DirectPrint( const Printer, Data : string)
6139: Procedure SetPrinterPixelsPerInch
6140: Function GetPrinterResolution : TPoint
6141: Function CharFitsWithinDots( const Text : string; const Dots : Integer) : Integer
6142: Procedure PrintMemo( const Memo : TMemo; const Rect : TRect)
6143:
6144:
6145: //*****unit uPSI_ShLwApi,*****
6146: Function StrChr( lpStart : PChar; wMatch : WORD) : PChar
6147: Function StrChri( lpStart : PChar; wMatch : WORD) : PChar
6148: Function StrCmpN( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6149: Function StrCmpNI( lpStr1, lpStr2 : PChar; nChar : Integer) : Integer
6150: Function StrCSpn( lpStr_, lpSet : PChar) : Integer
6151: Function StrCSpnI( lpStr1, lpSet : PChar) : Integer
6152: Function StrDup( lpSrch : PChar) : PChar
6153: Function StrFormatByteSize( dw : DWORD; szBuf : PChar; uiBufSize : UINT) : PChar
6154: Function StrFormatKBSIZE( qdw : Dword; szBuf : PChar; uiBufSize : UINT) : PChar
6155: Function StrFromTimeInterval(pszOut: PChar; cchMax:UINT;dwTimeMS:DWORD; digits: Integer): Integer
6156: Function StrIsIntLEqual( fCaseSens : Boolean; lpString1, lpString2 : PChar; nChar : Integer) : Boolean
6157: /Function StrNCat( psz1 : PChar; psz2 : PChar; cchMax : Integer) : PChar
6158: Function StrPBrk( psz, pszSet : PChar) : PChar

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6159: Function StrRChr( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6160: Function StrRChrI( lpStart, lpEnd : PChar; wMatch : WORD ) : PChar
6161: Function StrRStrI( lpSource, lpLast, lpSrch : PChar ) : PChar
6162: Function StrSpn( psz, pszSet : PChar ) : Integer
6163: Function StrStr( lpFirst, lpSrch : PChar ) : PChar
6164: Function StrStrI( lpFirst, lpSrch : PChar ) : PChar
6165: Function StrToInt( lpSrch : PChar ) : Integer
6166: Function StrToIntEx( pszString : PChar; dwFlags : DWORD; var piRet : Integer ) : BOOL
6167: Function StrTrim( psz : PChar; pszTrimChars : PChar ) : BOOL
6168: Function ChrCmpI( w1, w2 : WORD ) : BOOL
6169: Function ChrCmpIA( w1, w2 : WORD ) : BOOL
6170: Function ChrCmpIW( w1, w2 : WORD ) : BOOL
6171: Function StrIntEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6172: Function StrIntEqNI( s1, s2 : PChar; nChar : Integer ) : BOOL
6173: Function StrCatBuff( pszDest, pszSrc : PChar; cchDestBuffSize : Integer ) : PChar
6174: Function StrCpyNX( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6175: Function IntlStrEqWorker( fCaseSens : BOOL; lpString1, lpString2 : PChar; nChar : Integer ) : BOOL
6176: Function IntlStrEqN( s1, s2 : PChar; nChar : Integer ) : BOOL
6177: SZ_CONTENTTYPE_HTMLA', 'String 'text/html'
6178: SZ_CONTENTTYPE_HTMLW', 'String 'text/html'
6179: SZ_CONTENTTYPE_HTML', 'string SZ_CONTENTTYPE_HTMLA';
6180: SZ_CONTENTTYPE_CDFA', 'String 'application/x-cdf'
6181: SZ_CONTENTTYPE_CDFW', 'String 'application/x-cdf'
6182: SZ_CONTENTTYPE_CDF', 'string SZ_CONTENTTYPE_CDFA';
6183: Function PathIsHTMLFile( pszPath : PChar ) : BOOL
6184: STIF_DEFAULT', 'LongWord( $00000000);
6185: STIF_SUPPORT_HEX', 'LongWord( $00000001);
6186: Function StrNCmpI( lpStr1, lpStr2 : PChar; nChar : Integer ) : Integer
6187: Function StrNCopy( psz1, psz2 : PChar; cchMax : Integer ) : PChar
6188: Function StrCatN( psz1 : PChar; psz2 : PChar; cchMax : Integer ) : PChar
6189: Function PathAddBackslash( pszPath : PChar ) : PChar
6190: Function PathAddExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6191: Function PathAppend( pszPath : PChar; pMore : PChar ) : BOOL
6192: Function PathBuildRoot( szRoot : PChar; iDrive : Integer ) : PChar
6193: Function PathCanonicalize( pszBuf : PChar; pszPath : PChar ) : BOOL
6194: Function PathCombine( szDest : PChar; lpszDir, lpszFile : PChar ) : PChar
6195: Function PathCompactPath( hDC : HDC; pszPath : PChar; dx : UINT ) : BOOL
6196: Function PathCompactPathEx( pszOut : PChar; pszSrc : PChar; cchMax : UINT; dwFlags:DWORD ) : BOOL
6197: Function PathCommonPrefix( pszFile1, pszFile2 : PChar; achPath : PChar ) : Integer
6198: Function PathFileExists( pszPath : PChar ) : BOOL
6199: Function PathFindExtension( pszPath : PChar ) : PChar
6200: Function PathFindFileName( pszPath : PChar ) : PChar
6201: Function PathFindNextComponent( pszPath : PChar ) : PChar
6202: Function PathFindOnPath( pszPath : PChar; var ppszOtherDirs : PChar ) : BOOL
6203: Function PathGetArgs( pszPath : PChar ) : PChar
6204: Function PathFindSuffixArray(pszPath: PChar; const apszSuffix: PChar; iArraySize: Integer): PChar
6205: Function PathIsLFNFileSpec( lpName : PChar ) : BOOL
6206: Function PathGetCharType( ch : Char ) : UINT
6207: GCT_INVALID', 'LongWord( $0000);
6208: GCT_LFNCHAR', 'LongWord( $0001);
6209: GCT_SHORTCHAR', 'LongWord( $0002);
6210: GCT_WILD', 'LongWord( $0004);
6211: GCT_SEPARATOR', 'LongWord( $0008);
6212: Function PathGetDriveNumber( pszPath : PChar ) : Integer
6213: Function PathIsDirectory( pszPath : PChar ) : BOOL
6214: Function PathIsDirectoryEmpty( pszPath : PChar ) : BOOL
6215: Function PathIsFileSpec( pszPath : PChar ) : BOOL
6216: Function PathIsPrefix( pszPrefix, pszPath : PChar ) : BOOL
6217: Function PathIsRelative( pszPath : PChar ) : BOOL
6218: Function PathIsRoot( pszPath : PChar ) : BOOL
6219: Function PathIsSameRoot( pszPath1, pszPath2 : PChar ) : BOOL
6220: Function PathIsUNC( pszPath : PChar ) : BOOL
6221: Function PathIsNetworkPath( pszPath : PChar ) : BOOL
6222: Function PathIsUNCServer( pszPath : PChar ) : BOOL
6223: Function PathIsUNCServerShare( pszPath : PChar ) : BOOL
6224: Function PathIsContentType( pszPath, pszContentType : PChar ) : BOOL
6225: Function PathIsURL( pszPath : PChar ) : BOOL
6226: Function PathMakePretty( pszPath : PChar ) : BOOL
6227: Function PathMatchSpec( pszFile, pszSpec : PChar ) : BOOL
6228: Function PathParseIconLocation( pszIconFile : PChar ) : Integer
6229: Procedure PathQuoteSpaces( lpsz : PChar )
6230: Function PathRelativePathTo(pszPath:PChar;pszFrom:PChar;dwAttrFrom:DWORD;pszTo:PChar;dwAttrTo:DWORD):BOOL;
6231: Procedure PathRemoveArgs( pszPath : PChar )
6232: Function PathRemoveBackslash( pszPath : PChar ) : PChar
6233: Procedure PathRemoveBlanks( pszPath : PChar )
6234: Procedure PathRemoveExtension( pszPath : PChar )
6235: Function PathRemoveFileSpec( pszPath : PChar ) : BOOL
6236: Function PathRenameExtension( pszPath : PChar; pszExt : PChar ) : BOOL
6237: Function PathSearchAndQualify( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL
6238: Procedure PathSetDlgItemPath( hDlg : HWND; id : Integer; pszPath : PChar )
6239: Function PathSkipRoot( pszPath : PChar ) : PChar
6240: Procedure PathStripPath( pszPath : PChar )
6241: Function PathStripToRoot( pszPath : PChar ) : BOOL
6242: Procedure PathUnquoteSpaces( lpsz : PChar )
6243: Function PathMakeSystemFolder( pszPath : PChar ) : BOOL
6244: Function PathUnmakeSystemFolder( pszPath : PChar ) : BOOL
6245: Function PathIsSystemFolder( pszPath : PChar; dwAttrib : DWORD ) : BOOL
6246: Procedure PathUndecorate( pszPath : PChar )
6247: Function PathUnExpandEnvStrings( pszPath : PChar; pszBuf : PChar; cchBuf : UINT ) : BOOL

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6248: URL_SCHEME_INVALID', 'LongInt'( - 1);
6249: URL_SCHEME_UNKNOWN', 'LongInt'( 0);
6250: URL_SCHEME_FTP', 'LongInt'( 1);
6251: URL_SCHEME_HTTP', 'LongInt'( 2);
6252: URL_SCHEME_GOPHER', 'LongInt'( 3);
6253: URL_SCHEME_MAILTO', 'LongInt'( 4);
6254: URL_SCHEME_NEWS', 'LongInt'( 5);
6255: URL_SCHEME_NNTP', 'LongInt'( 6);
6256: URL_SCHEME_TELNET', 'LongInt'( 7);
6257: URL_SCHEME_WAIS', 'LongInt'( 8);
6258: URL_SCHEME_FILE', 'LongInt'( 9);
6259: URL_SCHEME_MK', 'LongInt'( 10);
6260: URL_SCHEME_HTTPS', 'LongInt'( 11);
6261: URL_SCHEME_SHLL', 'LongInt'( 12);
6262: URL_SCHEME_SNEWS', 'LongInt'( 13);
6263: URL_SCHEME_LOCAL', 'LongInt'( 14);
6264: URL_SCHEME_JAVASCRIPT', 'LongInt'( 15);
6265: URL_SCHEME_VBSCRIPT', 'LongInt'( 16);
6266: URL_SCHEME_ABOUT', 'LongInt'( 17);
6267: URL_SCHEME_RES', 'LongInt'( 18);
6268: URL_SCHEME_MAXVALUE', 'LongInt'( 19);
6269: URL_SCHEME', 'Integer
6270: URL_PART_NONE', 'LongInt'( 0);
6271: URL_PART_SCHEME', 'LongInt'( 1);
6272: URL_PART_HOSTNAME', 'LongInt'( 2);
6273: URL_PART_USERNAME', 'LongInt'( 3);
6274: URL_PART_PASSWORD', 'LongInt'( 4);
6275: URL_PART_PORT', 'LongInt'( 5);
6276: URL_PART_QUERY', 'LongInt'( 6);
6277: URL_PART', 'DWORD
6278: URLIS_URL', 'LongInt'( 0);
6279: URLIS_OPAQUE', 'LongInt'( 1);
6280: URLIS_NOHISTORY', 'LongInt'( 2);
6281: URLIS_FILEURL', 'LongInt'( 3);
6282: URLIS_APPLICABLE', 'LongInt'( 4);
6283: URLIS_DIRECTORY', 'LongInt'( 5);
6284: URLIS_HASQUERY', 'LongInt'( 6);
6285: TURLIs', 'DWORD
6286: URL_UNESCAPE', 'LongWord( $10000000);
6287: URL_ESCAPE_UNSAFE', 'LongWord( $20000000);
6288: URL_PLUGGABLE_PROTOCOL', 'LongWord( $40000000);
6289: URL_WININET_COMPATIBILITY', 'LongWord( DWORD( $80000000 ) );
6290: URL_DONT_ESCAPE_EXTRA_INFO', 'LongWord( $02000000);
6291: URL_ESCAPE_SPACES_ONLY', 'LongWord( $04000000);
6292: URL_DONT_SIMPLIFY', 'LongWord( $08000000);
6293: URL_NO_META', 'longword( URL_DONT_SIMPLIFY);
6294: URL_UNESCAPE_INPLACE', 'LongWord( $00100000);
6295: URL_CONVERT_IF_DOSPATH', 'LongWord( $00200000);
6296: URL_UNESCAPE_HIGH_ANSI_ONLY', 'LongWord( $00400000);
6297: URL_INTERNAL_PATH', 'LongWord( $00800000);
6298: URL_FILE_USE_PATHURL', 'LongWord( $00010000);
6299: URL_ESCAPE_PERCENT', 'LongWord( $00001000);
6300: URL_ESCAPE_SEGMENT_ONLY', 'LongWord( $00002000);
6301: URL_PARTFLAG_KEEPSCHEME', 'LongWord( $00000001);
6302: URL_APPLY_DEFAULT', 'LongWord( $00000001);
6303: URL_APPLY_GUESSSCHEME', 'LongWord( $00000002);
6304: URL_APPLY_GUESSFILE', 'LongWord( $00000004);
6305: URL_APPLY_FORCEAPPLY', 'LongWord( $00000008);
6306: Function UrlCompare( psz1, psz2 : PChar; fIgnoreSlash : BOOL) : Integer
6307: Function UrlCombine(pszBase,pszRelative:PChar;pszCombin:PChar;out pcchCombin:DWORD;dwFlags:DWORD) : HRESULT;
6308: Function UrlCanonicalize(pszUrl:PChar;pszCanonicalized:PChar;pcchCanonic:DWORD;dwFlags:DWORD) : HRESULT;
6309: Function UrlIsOpaque( pszURL : PChar) : BOOL
6310: Function UrlIsNoHistory( pszURL : PChar) : BOOL
6311: Function UrlIsFileUrl( pszURL : PChar) : BOOL
6312: Function UrlIs( pszUrl : PChar; UrlIs : TURLIs) : BOOL
6313: Function UrlGetLocation( psz1 : PChar) : PChar
6314: Function UrlUnescape( pszUrl, pszUnescaped : PChar;pcchUnescaped:DWORD; dwFlags : DWORD) : HRESULT
6315: Function UrlEscape(pszUrl: PChar; pszEscaped: PChar; pcchEscaped:DWORD; dwFlags : DWORD) : HRESULT
6316: Function UrlCreateFromPath(pszPath:PChar; pszUrl: PChar;pcchUrl: DWORD; dwFlags : DWORD) : HRESULT
6317: Function PathCreateFromUrl(pszUrl:PChar; pszPath:PChar; pcchPath:DWORD; dwFlags : DWORD) : HRESULT
6318: Function UrlHash( pszUrl : PChar; pbHash : BYTE; cbHash : DWORD) : HRESULT
6319: Function UrlGetPart(pszIn: PChar; pszOut: PChar; pcchOut: DWORD; dwPart,dwFlags: DWORD) : HRESULT
6320: Function UrlApplyScheme( pszIn : PChar; pszOut : PChar; pcchOut : DWORD; dwFlags : DWORD) : HRESULT
6321: Function HashData( pData : BYTE; cbData : DWORD; pbHash : BYTE; cbHash : DWORD) : HRESULT
6322: Function UrlEscapeSpaces( pszUrl : PChar; pszEscaped : PChar; pcchEscaped : DWORD) : HRESULT
6323: Function UrlUnescapeInPlace( pszUrl : PChar; dwFlags : DWORD) : HRESULT
6324: Function SHDeleteEmptyKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6325: Function SHDeleteKey( hKey : HKEY; pszSubKey : PChar) : DWORD
6326: Function SHDeleteValue( hKey : HKEY; pszSubKey, pszValue : PChar) : DWORD
6327: Function SHEnumKeyEx( hKey : HKEY; dwIndex : DWORD; pszName : PChar; var pcchName : DWORD) : Longint
6328: Function SHEnumValue( hKey : HKEY; dwIndex : DWORD; pszValueName:PChar; var
pcchValueName:DWORD;pdwType:DWORD; pvData : _Pointer; pcbData : DWORD) : Longint
6329: Function SHQueryInfoKey(hKey:HKEY;pcSubKeys,pcchMaxSubKeyLen,pcVal,pcch.MaxValueNameLen:DWORD):Longint;
6330: Function SHCopyKey( hkeySrc : HKEY; szSrcSubKey : PChar; hkeyDest : HKEY; fReserved : DWORD) : DWORD
6331: Function SHRegGetPath(hKey:HKEY; ppszSubKey,ppszValue: PChar; pszPath: PChar; dwFlags: DWORD): DWORD
6332: Function SHRegSetPath( hKey:HKEY; ppszSubKey, ppszValue, ppszPath : PChar; dwFlags : DWORD): DWORD
6333: SHREGDEL_DEFAULT', 'LongWord( $00000000);
6334: SHREGDEL_HKCU', 'LongWord( $00000001);
6335: SHREGDEL_HKLM', 'LongWord( $00000010);

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6336: SHREGDEL_BOTH', 'LongWord( $00000011);
6337: SHREGENUM_DEFAULT', 'LongWord( $00000000);
6338: SHREGENUM_HKCU', 'LongWord( $00000001);
6339: SHREGENUM_HKLM', 'LongWord( $00000010);
6340: SHREGENUM_BOTH', 'LongWord( $00000011);
6341: SHREGSET_HKCU', 'LongWord( $00000001);
6342: SHREGSET_FORCE_HKCU', 'LongWord( $00000002);
6343: SHREGSET_HKLM', 'LongWord( $00000004);
6344: SHREGSET_FORCE_HKLM', 'LongWord( $00000008);
6345: TSHRegDelFlags', 'DWORD
6346: TSHRegEnumFlags', 'DWORD
6347: HUSKEY', 'THandle
6348: ASSOCF_INIT_NOREMAPCLSID', 'LongWord( $00000001);
6349: ASSOCF_INIT_BYEXENAME', 'LongWord( $00000002);
6350: ASSOCF_OPEN_BYEXENAME', 'LongWord( $00000002);
6351: ASSOCF_INIT_DEFAULTTOSTAR', 'LongWord( $00000004);
6352: ASSOCF_INIT_DEFAULTTOFOLDER', 'LongWord( $00000008);
6353: ASSOCF_NOUSERSETTINGS', 'LongWord( $00000010);
6354: ASSOCF_NOTRUNCATE', 'LongWord( $00000020);
6355: ASSOCF_VERIFY', 'LongWord( $00000040);
6356: ASSOCF_REMAPRUNDLL', 'LongWord( $00000080);
6357: ASSOCF_NOFIXUPS', 'LongWord( $00000100);
6358: ASSOCF_IGNOREBASECLASS', 'LongWord( $00000200);
6359: ASSOCF', 'DWORD
6360: ASSOCSTR_COMMAND', 'LongInt'( 1);
6361: ASSOCSTR_EXECUTABLE', 'LongInt'( 2);
6362: ASSOCSTR_FRIENDLYDOCNAME', 'LongInt'( 3);
6363: ASSOCSTR_FRIENDLYAPPNAME', 'LongInt'( 4);
6364: ASSOCSTR_NOOPEN', 'LongInt'( 5);
6365: ASSOCSTR_SHELLNEWVALUE', 'LongInt'( 6);
6366: ASSOCSTR_DDECOMMAND', 'LongInt'( 7);
6367: ASSOCSTR_DDEIFEXEC', 'LongInt'( 8);
6368: ASSOCSTR_DDEAPPLICATION', 'LongInt'( 9);
6369: ASSOCSTR_DDETOPIC', 'LongInt'( 10);
6370: ASSOCSTR_INFOTIP', 'LongInt'( 11);
6371: ASSOCSTR_MAX', 'LongInt'( 12);
6372: ASSOCSTR', 'DWORD
6373: ASSOCKEY_SHELLEXECCLASS', 'LongInt'( 1);
6374: ASSOCKEY_APP', 'LongInt'( 2);
6375: ASSOCKEY_CLASS', 'LongInt'( 3);
6376: ASSOCKEY_BASECLASS', 'LongInt'( 4);
6377: ASSOCKEY_MAX', 'LongInt'( 5);
6378: ASSOCKEY', 'DWORD
6379: ASSOCDATA_MSIDEScriptor', 'LongInt'( 1);
6380: ASSOCDATA_NOACTIVATEHANDLER', 'LongInt'( 2);
6381: ASSOCDATA_QUERYCLASSTORE', 'LongInt'( 3);
6382: ASSOCDATA_HASPERUSERASSOC', 'LongInt'( 4);
6383: ASSOCDATA_MAX', 'LongInt'( 5);
6384: ASSOCDATA', 'DWORD
6385: ASSOCENUM_NONE', 'LongInt'( 0);
6386: ASSOCENUM', 'DWORD
6387: SID_IQueryAssociations', 'String' '{c46ca590-3c3f-11d2-bee6-0000f805ca57}
6388: SHACF_DEFAULT $00000000;
6389: SHACF_FILESYSTEM', 'LongWord( $00000001);
6390: SHACF_URLHISTORY', 'LongWord( $00000002);
6391: SHACF_URLMRU', 'LongWord( $00000004);
6392: SHACF_USETAB', 'LongWord( $00000008);
6393: SHACF_FILESYS_ONLY', 'LongWord( $00000010);
6394: SHACF_AUTOSUGGEST_FORCE_ON', 'LongWord( $10000000);
6395: SHACF_AUTOSUGGEST_FORCE_OFF', 'LongWord( $20000000);
6396: SHACF_AUTOAPPEND_FORCE_ON', 'LongWord( $40000000);
6397: SHACF_AUTOAPPEND_FORCE_OFF', 'LongWord( DWORD( $80000000 ) );
6398: Function SHAutoComplete( hwndEdit : HWND; dwFlags : DWORD ) : HRESULT
6399: Procedure SHSetThreadRef( punk : IUnknown )
6400: Procedure SHGetThreadRef( out ppunk : IUnknown )
6401: CTF_INSIST', 'LongWord( $00000001);
6402: CTF_THREAD_REF', 'LongWord( $00000002);
6403: CTF_PROCESS_REF', 'LongWord( $00000004);
6404: CTF_COINIT', 'LongWord( $00000008);
6405: Function SHCreateShellPalette( hdc : HDC ) : HPALETTE
6406: Procedure ColorRGBToHLS( clrRGB : TColorRef; out pwHue, pwLuminance, pwSaturation : WORD )
6407: Function ColorHLSTORGB( wHue, wLuminance, wSaturation : WORD ) : TColorRef
6408: Function ColorAdjustLuma( clrRGB : TColorRef; n : Integer; fScale : Boolean ) : TColorRef
6409: Function GetSysColorBrush( nIndex : Integer ) : HBRUSH
6410: Function DrawFocusRect( hdc : HDC; const lprc : TRect ) : BOOL
6411: Function FillRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6412: Function FrameRect( hdc : HDC; const lprc : TRect; hbr : HBRUSH ) : Integer
6413: Function InvertRect( hdc : HDC; const lprc : TRect ) : BOOL
6414: Function SetRect( var lprc : TRect; xLeft, yTop, xRight, yBottom : Integer ) : BOOL
6415: Function SetRectEmpty( var lprc : TRect ) : BOOL
6416: Function CopyRect( var lprcDst : TRect; const lprcSrc : TRect ) : BOOL
6417: Function InflateRect( var lprc : TRect; dx, dy : Integer ) : BOOL
6418: Function IntersectRect2( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6419: Function SubtractRect( var lprcDst : TRect; const lprcSrc1, lprcSrc2 : TRect ) : BOOL
6420:
6421: Function InitializeFlatSB( hWnd : HWND ) : Bool
6422: Procedure UninitializeFlatSB( hWnd : HWND )
6423: Function FlatSB_GetScrollProp( pl : HWND; propIndex : Integer; p3 : PInteger ) : Bool
6424: Function FlatSB_SetScrollProp( pl : HWND; index : Integer; newValue : Integer; p4 : Bool ) : Bool

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6425: Function GET_APPCOMMAND_LPARAM( lParam : Integer ) : Word //of JvWin32
6426: Function GET_DEVICE_LPARAM( lParam : Integer ) : Word
6427: Function GET_MOUSEORKEY_LPARAM( lParam : Integer ) : Integer
6428: Function GET_FLAGS_LPARAM( lParam : Integer ) : Word
6429: Function GET_KEYSTATE_LPARAM( lParam : Integer ) : Word
6430:
6431:
6432: // **** 204 unit uPSI_ShellAPI;
6433: Function DragQueryFile( Drop : HDROP; FileIndex : UINT; FileName : PChar; cb : UINT ) : UINT
6434: Function DragQueryPoint( Drop : HDROP; var Point : TPoint ) : BOOL
6435: Procedure DragFinish( Drop : HDROP )
6436: Procedure DragAcceptFiles( Wnd : HWND; Accept : BOOL )
6437: Function ShellExecute( hWnd : HWND; Operation,FileName,Parameters,Directory : PChar; ShowCmd : Integer ) : HINST
6438: Function FindExecutable( FileName, Directory : PChar; Result : PChar ) : HINST
6439: Function ShellAbout( Wnd : HWND; szApp, szOtherStuff : PChar; Icon : HICON ) : Integer
6440: Function DuplicateIcon( hInst : HINST; Icon : HICON ) : HICON
6441: Function ExtractAssociatedIcon( hInst : HINST; lpIconPath : PChar; var lpiIcon : Word ) : HICON
6442: Function ExtractIcon( hInst : HINST; lpszExeFileName : PChar; nIconIndex : UINT ) : HICON
6443: Function SHAppBarMessage( dwMessage : DWORD; var pData : TAppBarData ) : UINT
6444: Function DoEnvironmentSubst( szString : PChar; cbString : UINT ) : DWORD
6445: Function ExtractIconEx( lpszFile : PChar; nIconIndex : Int; var phiconLarge,phiconSmall : HICON; nIcons : UINT ) : UINT
6446: Procedure SHFreeNameMappings( hNameMappings : THandle )
6447:
6448: DLLVER_PLATFORM_WINDOWS', 'LongWord( $00000001 );
6449: DLLVER_PLATFORM_NT', 'LongWord( $00000002 );
6450: DLLVER_MAJOR_MASK', 'LongWord( Int64( $FFFF000000000000 ) );
6451: DLLVER_MINOR_MASK', 'LongWord( Int64( $0000FFFF00000000 ) );
6452: DLLVER_BUILD_MASK', 'LongWord( Int64( $00000000FFFF0000 ) );
6453: DLLVER_QFE_MASK', 'LongWord( Int64( $000000000000FFFF ) );
6454: Function MAKEDLLVERULL( Major, Minor, Build, Qfe : Word ) : Int64
6455: Function SimpleXMLEncode( const S : string ) : string
6456: Procedure SimpleXMLDecode( var S : string; TrimBlanks : Boolean )
6457: Function XMLEncode( const S : string ) : string
6458: Function XMLDecode( const S : string ) : string
6459: Function EntityEncode( const S : string ) : string
6460: Function EntityDecode( const S : string ) : string
6461:
6462: procedure RIRegister_CPort_Routines( S : TPSEExec );
6463: Procedure EnumComPorts( Ports : TStrings )
6464: Procedure ListComPorts( Ports : TStrings )
6465: Procedure ComPorts( Ports : TStrings ) //Alias to Arduino
6466: Function GetComPorts : TStringlist;
6467: Function StrToBaudRate( Str : string ) : TBaudRate
6468: Function StrToStopBits( Str : string ) : TStopBits
6469: Function StrToDataBits( Str : string ) : TDataBits
6470: Function StrToParity( Str : string ) : TParityBits
6471: Function StrToFlowControl( Str : string ) : TFlowControl
6472: Function BaudRateToStr( BaudRate : TBaudRate ) : string
6473: Function StopBitsToStr( StopBits : TStopBits ) : string
6474: Function DataBitsToStr( DataBits : TDataBits ) : string
6475: Function ParityToStr( Parity : TParityBits ) : string
6476: Function FlowControlToStr( FlowControl : TFlowControl ) : string
6477: Function ComErrorsToStr( Errors : TComErrors ) : String
6478:
6479: Function GetMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax : UINT ) : BOOL
6480: Function DispatchMessage( const lpMsg : TMsg ) : Longint
6481: Function TranslateMessage( const lpMsg : TMsg ) : BOOL
6482: Function SetMessageQueue( cMessagesMax : Integer ) : BOOL
6483: Function PeekMessage( var lpMsg : TMsg; hWnd : HWND; wMsgFilterMin, wMsgFilterMax, wRemoveMsg : UINT ) : BOOL
6484: Function GetMessagePos : DWORD
6485: Function GetMessageTime : Longint
6486: Function GetMessageExtraInfo : Longint
6487: Function GetSpecialFolderPath( const FolderName : string; CanCreate : Boolean ) : string
6488: Procedure JAddToRecentDocs( const Filename : string )
6489: Procedure ClearRecentDocs
6490: Function ExtractIconFromFile( FileName : string; Index : Integer ) : HICON
6491: Function CreateShellLink( const AppName, Desc : string; Dest : string ) : string
6492: Procedure GetShellLinkInfo( const LinkFile : WideString; var SLI : TShellLinkInfo )
6493: Procedure SetShellLinkInfo( const LinkFile : WideString; const SLI : TShellLinkInfo )
6494: Function RecycleFile( FileToRecycle : string ) : Boolean
6495: Function JCopyFile( FromFile, ToDir : string ) : Boolean
6496: Function ShellObjectTypeEnumToConst( ShellObjectType : TShellObjectType ) : UInt
6497: Function ShellObjectTypeConstToEnum( ShellObjectType : UInt ) : TShellObjectType
6498: Function QueryServiceConfig2A( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6499: Function QueryServiceConfig2W( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6500: Function QueryServiceConfig2( hService : SC_HANDLE; dwInfoLevel : DWORD; lpBuffer : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded : DWORD ) : Boolean
6501: Function EnumServicesStatusExA( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6502: Function EnumServicesStatusExW( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6503: Function EnumServicesStatusEx( hSCManager : SC_HANDLE; InfoLevel : SC_ENUM_TYPE; dwServiceType : DWORD; dwServiceState : DWORD; lpServices : LPBYTE; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle : DWORD; pszGroupName : LP
6504: Function ConvertSidToStringSid( sid : PSID; var stringSid : LPWSTR ) : Boolean

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6505:
6506: ***** unit uPSI_JclPeImage;
6507:
6508: Function IsValidPeFile( const FileName : TFileName ) : Boolean
6509: // Function PeGetNtHeaders( const FileName : TFileName; var NtHeaders : TImageNtHeaders ) : Boolean
6510: Function PeCreateNameHintTable( const FileName : TFileName ) : Boolean
6511: Function PeRebaseImage(const ImageName: TFileName; NewBase : DWORD; TimeStamp : DWORD; MaxNewSize : DWORD) : TJclRebaseImageInfo
6512: Function PeVerifyCheckSum( const FileName : TFileName ) : Boolean
6513: Function PeClearCheckSum( const FileName : TFileName ) : Boolean
6514: Function PeUpdateCheckSum( const FileName : TFileName ) : Boolean
6515: Function PeDoesExportFunction(const FileName:TFileName;const FuncName:string;Options:TJclSmartCompOptions):Bool;
6516: Function PeIsExportFunctionForwardedEx( const FileName : TFileName; const FunctionName : string; var ForwardedName : string; Options : TJclSmartCompOptions ) : Boolean
6517: Function PeIsExportFunctionForwarded(const FileName:TFileName;const FunctionName:string;Options:TJclSmartCompOptions):Bool
6518: Function PeDoesImportFunction( const FileName : TFileName; const FunctionName : string; const LibraryName : string; Options : TJclSmartCompOptions ) : Boolean
6519: Function PeDoesImportLibrary(const FileName:TFileName;const LibraryName:string;Recursive:Boolean):Boolean;
6520: Function PeImportedLibraries( const FileName : TFileName; const LibrariesList : TStrings; Recursive : Boolean; FullPathName : Boolean ) : Boolean
6521: Function PeImportedFunctions(const FileName:TFileName;const FunctionsList:TStrings;const LibraryName:string;IncludeLibNames : Boolean): Boolean
6522: Function PeExportedFunctions( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6523: Function PeExportedNames( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6524: Function PeExportedVariables( const FileName : TFileName; const FunctionsList : TStrings ) : Boolean
6525: Function PeResourceKindNames(const FileN: TFileName;ResourceType:TJclPeResourceKind;const NamesList:TStrings):Bool
6526: Function PeBorFormNames( const FileName : TFileName; const NamesList : TStrings ) : Boolean
6527: Function PeBorDependedPackages(const FileName:TFileName;PackagesList:TStrings;FullPathName, Descript:Bool):Bool;
6528: Function PeFindMissingImports( const FileName : TFileName; MissingImportsList : TStrings ) : Boolean;
6529: Function PeFindMissingImports1( RequiredImportsList, MissingImportsList : TStrings ) : Boolean;
6530: Function PeCreateRequiredImportList(const FileName : TFileName; RequiredImportsList: TStrings): Boolean;
6531: //Function PeMapImgNtHeaders( const BaseAddress : Pointer ) : PImageNtHeaders
6532: //Function PeMapImgLibraryName( const BaseAddress : Pointer ) : string
6533: //Function PeMapImgSections( const NtHeaders : PImageNtHeaders ) : PImageSectionHeader
6534: //Function PeMapImgFindSection( const NtHeaders : PImageNtHeaders; const SectionName : string ) : PImageSectionHeader
6535: //Function PeMapImgExportedVariables(const Module: HMODULE; const VariablesList:TStrings):Boolean
6536: //Function PeMapImgResolvePackageThunk( Address : Pointer ) : Pointer
6537: Function PeMapFindResource(const Module:HMODULE;const ResourceType:PChar;const ResourceName:string):__Pointer;
6538: SIRegister_TJclPeSectionStream(CL);
6539: SIRegister_TJclPeMapImgHookItem(CL);
6540: SIRegister_TJclPeMapImgHooks(CL);
6541: //Function PeDbgImgNtHeaders(ProcessHandle:THandle;BaseAddress:Pointer,var NtHeaders:TImageNtHeaders):Boolean
6542: //Function PeDdbgImgLibraryName(ProcessHandle:THandle; BaseAddress:Pointer; var Name:string):Boolean
6543: Type TJclBorUmSymbolKind', '(skData,skFunction,skConstructor,skDestructor,skRTTI,skVTable)
6544: TJclBorUmSymbolModifier', '( smQualified, smLinkProc )
6545: TJclBorUmSymbolModifiers', 'set of TJclBorUmSymbolModifier
6546: TJclBorUmDescription', 'record Kind : TJclBorUmSymbolKind; Modifiers : TJclBorUmSymbolModifiers; end
6547: TJclBorUmResult', '( urOk, urNotMangled, urMicrosoft, urError )
6548: TJclPeUmResult', '( umNotMangled, umBorland, umMicrosoft )
6549: Function PeBorUmUnmangleName( const Name : string; var Unmangled : string; var Description : TJclBorUmDescription; var BasePos : Integer ) : TJclBorUmResult;
6550: Function PeBorUmUnmangleName1(const Name:string;var Unmangled:string;var Descript:TJclBorUmDescription):TJclBorUmResult;
6551: Function PeBorUmUnmangleName2( const Name : string; var Unmangled : string ) : TJclBorUmResult;
6552: Function PeBorUmUnmangleName3( const Name : string ) : string;
6553: Function PeIsNameMangled( const Name : string ) : TJclPeUmResult
6554: Function PeUnmangleName( const Name : string; var Unmangled : string ) : TJclPeUmResult
6555:
6556:
6557: //***** SysTools uPSI_StSystem; *****
6558: Function StCopyFile( const SrcPath, DestPath : AnsiString ) : Cardinal
6559: Function CreateTempFile( const aFolder : AnsiString; const aPrefix : AnsiString ) : AnsiString
6560: Function DeleteVolumeLabel( Drive : Char ) : Cardinal
6561: //Procedure EnumerateDirectories(const StartDir:AnsiStr;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6562: //Procedure EnumerateFiles(const StartDir:AnsiString;FL:TStrings;SubDirs:Bool;IncludeItem:TIncludeItemFunc);
6563: Function FileHandlesLeft( MaxHandles : Cardinal ) : Cardinal
6564: Function FileMatchesMask( const FileName, FileMask : AnsiString ) : Boolean
6565: Function FileTimeToStDateTime( FileTime : LongInt ) : TStDateTimeRec
6566: Function FindNthSlash( const Path : AnsiString; n : Integer ) : Integer
6567: Function FlushOsBuffers( Handle : Integer ) : Boolean
6568: Function GetCurrentUser : AnsiString
6569: Function GetDiskClass( Drive : Char ) : DiskClass
6570: Function GetDiskInfo(Drive:Char;var ClustersAvail,TotalClusters,BytesPerSector, SectorsPerCluster:Cardinal):Bool;
6571: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Double;var TotalSpaceAvail:Double;var DiskSize:Double):Bool;
6572: Function GetDiskSpace(Drive:Char;var UserSpaceAvail:Comp;var TotalSpaceAvail:Comp;var DiskSize:Comp):Boolean;
6573: { index 0 - FreeBytesAvailable, 1 - TotalNumberOfBytes, 2 - TotalNumberOfFreeBytes }

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6574: Function getDiskSpace2( const path: String; index: integer): int64;
6575: Function GetFileCreateDate( const FileName : AnsiString ) : TDateTime
6576: Function StGetFileLastAccess( const FileName : AnsiString ) : TDateTime
6577: Function GetfileLastModify( const FileName : AnsiString ) : TDateTime
6578: Function GetHomeFolder( aForceSlash : Boolean ) : AnsiString
6579: Function GetLongPath( const APath : AnsiString ) : AnsiString
6580: Function GetMachineName : AnsiString
6581: Function GetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6582: Function GetParentFolder( const APath : AnsiString; aForceSlash : Boolean ) : AnsiString
6583: Function GetShortPath( const APath : AnsiString ) : AnsiString
6584: Function GetSystemFolder( aForceSlash : Boolean ) : AnsiString
6585: Function GetTempFolder( aForceSlash : boolean ) : AnsiString
6586: Function StGetWindowsFolder( aForceslash : boolean ) : AnsiString
6587: Function GetWorkingFolder( aForceSlash : boolean ) : AnsiString
6588: Function GlobalDateTimeToLocal( const UTC : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6589: Function StIsDirectory( const DirName : AnsiString ) : Boolean
6590: Function IsDirectoryEmpty( const S : AnsiString ) : Integer
6591: Function IsDriveReady( Drive : Char ) : Boolean
6592: Function IsFile( const FileName : AnsiString ) : Boolean
6593: Function IsFileArchive( const S : AnsiString ) : Integer
6594: Function IsFileHidden( const S : AnsiString ) : Integer
6595: Function IsFileReadOnly( const S : AnsiString ) : Integer
6596: Function IsFileSystem( const S : AnsiString ) : Integer
6597: Function LocalDateTimeToGlobal( const DT1 : TStDateTimeRec; MinOffset : Integer ) : TStDateTimeRec
6598: Function ReadVolumeLabel( var VolName : AnsiString; Drive : Char ) : Cardinal
6599: Function SameFile( const FilePath1, FilePath2 : AnsiString; var ErrorCode : Integer ) : Boolean
6600: Function SetMediaID( Drive : Char; var MediaIDRec : MediaIDType ) : Cardinal
6601: Procedure SplitPath( const APath : AnsiString; Parts : TStrings )
6602: Function StDateTimeToFileTime( const FileTime : TStDateTimeRec ) : LongInt
6603: Function StDateTimeToUnixTime( const DT1 : TStDateTimeRec ) : Longint
6604: Function UnixTimeToStDateTime( UnixTime : Longint ) : TStDateTimeRec
6605: Function ValidDrive( Drive : Char ) : Boolean
6606: Function WriteVolumeLabel( const VolName : AnsiString; Drive : Char ) : Cardinal
6607:
6608: //*****unit uPST_Jc1LANMan;*****
6609: Function CreateAccount( const Server, Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6610: Function CreateLocalAccount( const Username, Fullname, Password, Description, Homedir, Script : string;
  const PasswordNeverExpires : Boolean ) : Boolean
6611: Function DeleteAccount( const Servername, Username : string ) : Boolean
6612: Function DeleteLocalAccount( Username : string ) : Boolean
6613: Function CreateLocalGroup( const Server, Groupname, Description : string ) : Boolean
6614: Function CreateGlobalGroup( const Server, Groupname, Description : string ) : Boolean
6615: Function DeleteLocalGroup( const Server, Groupname : string ) : Boolean
6616: Function GetlocalGroups( const Server : string; const Groups : TStrings ) : Boolean
6617: Function GetGlobalGroups( const Server : string; const Groups : TStrings ) : Boolean
6618: Function LocalGroupExists( const Group : string ) : Boolean
6619: Function GlobalGroupExists( const Server, Group : string ) : Boolean
6620: Function AddAccountToLocalGroup( const Accountname, Groupname : string ) : Boolean
6621: Function LookupGroupName( const Server : string; const RID : TNetWellKnownRID ) : string
6622: Procedure ParseAccountName( const QualifiedName : string; var Domain, UserName : string )
6623: Function IsLocalAccount( const AccountName : string ) : Boolean
6624: Function TimeStampInterval( StartStamp, EndStamp : TDateTime ) : integer
6625: Function GetRandomString( NumChar : cardinal ) : string
6626:
6627: //*****unit uPST_cUtils;*****
6628: TypeS('TUnitType', '( utSrc, utHead, utRes, utPrj, utOther )'
6629: Function cIsWinNT : boolean
6630: Procedure cFilesFromWildcard(Directory,Mask: string;var Files:TStringList;Subdirs,ShowDirs,
  Multitasking:Boolean;
6631: Function cExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer ) : THandle
6632: Function cRunAndGetOutput(Cmd,WorkDir:string; ErrFunc:TErrFunc; LineOutputFunc:TLineOutputFunc;
  CheckAbortFunc : TCheckAbortFunc; ShowReturnValue : Boolean) : string
6633: Function cGetShortName( FileName : string ) : string
6634: Procedure cShowError( Msg : String )
6635: Function cCommaStrToStr( s : string; formatstr : string ) : string
6636: Function cIncludeQuoteIfSpaces( s : string ) : string
6637: Function cIncludeQuoteIfNeeded( s : string ) : string
6638: Procedure cLoadFilefromResource( const FileName : string; ms : TMemoryStream )
6639: Function cValidateFile(const FileName:string; const WorkPath:string;const CheckDirs:boolean):string;
6640: Function cBuildFilter( var value : string; const FLTStyle : TFILTERSET ) : boolean;
6641: Function cBuildFilter1( var value : string; const _filters : array of string ) : boolean;
6642: Function cCodeInstoStr( s : string ) : string
6643: Function cStrtoCodeIns( s : string ) : string
6644: Procedure cStrtoAttr( var Attr : TSynHighlighterAttributes; Value : string )
6645: Function cAttrtoStr( const Attr : TSynHighlighterAttributes ) : string
6646: Procedure cStrtoPoint( var pt : TPoint; value : string )
6647: Function cPointtoStr( const pt : TPoint ) : string
6648: Function cListtoStr( const List : TStrings ) : string
6649: Function ListtoStr( const List : TStrings ) : string
6650: Procedure StrtoList( s : string; const List : TStrings; const delimiter : char )
6651: Procedure cStrtoList( s : string; const List : TStrings; const delimiter : char )
6652: Function cGetFileType( const FileName : string ) : TUnitType
6653: Function cGetExTyp( const FileName : string ) : TExUnitType
6654: Procedure cSetPath( Add : string; const UseOriginal : boolean )
6655: Function cExpandFileto( const FileName : string; const basePath : string ) : string
6656: Function cFileSamePath( const FileName : string; const TestPath : string ) : boolean
6657: Procedure cCloneMenu( const FromMenu : TMenuItem; ToMenu : TMenuItem )
6658: Function cGetLastPos( const SubStr : string; const S : string ) : integer

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6659: Function cGenMakePath( FileName : String ) : String;
6660: Function cGenMakePath2( FileName : String ) : String
6661: Function cGenMakePath1( FileName : String; EscapeSpaces, EncloseInQuotes : Boolean) : String;
6662: Function cGetRealPath( BrokenFileName : String; Directory : String ) : String
6663: Function cCalcMod( Count : Integer ) : Integer
6664: Function cGetVersionString( FileName : string ) : string
6665: Function cCheckChangeDir( var Dir : string ) : boolean
6666: Function cGetAssociatedProgram(const Extension:string; var Filename,Description: string):boolean
6667: Function cIsNumeric( s : string ) : boolean
6668: Procedure StrToAttr( var Attr : TSynHighlighterAttributes; Value : string )
6669: Function AttrToStr( const Attr : TSynHighlighterAttributes ) : string
6670: Function GetFileType( const FileName : string ) : TUnitType
6671: Function Atoi(const aStr: string): integer
6672: Function Itoa(const aint: integer): string
6673: Function Atof(const aStr: string): double');
6674: Function Atol(const aStr: string): longint');
6675:
6676:
6677: procedure SIRegister_cHTTPUtils(CL: TPSPascalCompiler);
6678: begin
6679:   FindClass('TOBJECT'), 'EHTTP
6680:   FindClass('TOBJECT'), 'EHTTPPParser
6681:   //AnsiCharSet', 'set of AnsiChar
6682:   AnsiStringArray', 'array of AnsiString
6683:   THTTPProtocolEnum', '( hpNone, hpCustom, hpHTTP, hpHTTPS )
6684:   THTTPVersionEnum', '( hvNone, hvCustom, hvHTTP10, hvHTTP11 )
6685:   THTTPVersion', 'record Version : THTTPVersionEnum; Protocol : TH'
6686:   +'TPProtocolEnum; CustomProtocol : AnsiString; CustomMajVersion : Integer; '
6687:   +'CustomMinVersion : Integer; end
6688:   THTTPHeaderNameEnum', '( hntCustom, hntHost, hntContentType, hnt'
6689:   +'ContentLength, hntContentTransferEncoding, hntContentLocation, hntContentL'
6690:   +'anguage, hntContentEncoding, hntTransferEncoding, hntDate, hntServer, hntU'
6691:   +'serAgent, hntLocation, hntConnection, hntExpires, hntCacheControl, hntSetC'
6692:   +'ookie, hntCookie, hntAuthorization, hntVia, hntWarning, hntContentRange, h'
6693:   +'ntXForwardedFor, hntPragma, hntXPoweredBy, hntWWWAuthenticate, hntLastModi'
6694:   +'fied, hntETag, hntProxyAuthorization, hntReferer, hntAge, hntAcceptRanges, '
6695:   +' hntAcceptEncoding, hntAcceptLanguage, hntAcceptCharset, hntIfModifiedSince'
6696:   +'e, hntIfUnmodifiedSince, hntRetryAfter, hntUpgrade, hntStatus, hntProxyCon'
6697:   +'nection, hntOrigin, hntKeepAlive )
6698:   THTTPHeaderName', 'record Value : THTTPHeaderNameEnum; Custom: AnsiString; end
6699:   THTTPCustomHeader', 'record FieldName : AnsiString;FieldValue :'
6700:   +' AnsiString; end
6701:   //PHTTPCustomHeader', '^THTTPCustomHeader // will not work
6702:   THTTPContentLengthEnum', '( hcNone, hcLByteCount )
6703:   THTTPContentLength', 'record Value : THTTPContentLengthEnum; ByteCount:Int64; end
6704:   //PHTTPContentLength', '^THTTPContentLength // will not work
6705:   THTTPContentTypeMajor', '( hctmCustom, hctmText, hctmImage )
6706:   THTTPContentTypeEnum', '( hcNone, hcCustomParts, hcCustomStri'
6707:   +'ng, hcTextHtml, hcTextAscii, hcTextCss, hcTextPlain, hcTextXml, hcTe'
6708:   +'xtCustom, hcImageJpeg, hcImagePng, hcImageGif, hcImageCustom, hcAppli'
6709:   +'cationJSON, hcApplicationOctetStream, hcApplicationJavaScript, hcAplic'
6710:   +'ationCustom, hcAudioCustom, hcVideoCustom )
6711:   THTTPContentType', 'record Value : THTTPContentTypeEnum; CustomM'
6712:   +'ajor : AnsiString; CustomMinor : AnsiString; Parameters : AnsiStringArray; '
6713:   +'CustomStr : AnsiString; end
6714:   THTTPDDateFieldEnum', '( hdNone, hdCustom, hdParts, hdDateTime )'
6715:   THTTPDDateField', 'record Value : THTTPDDateFieldEnum; DayOfWeek :'
6716:   +' Integer; Day : integer; Month : integer; Year : Integer; Hour : integer; '
6717:   +'Min : integer; Sec : Integer; TimeZoneGMT : Boolean; CustomTimeZone : Ansi'
6718:   +'String; DateTime : TDateTime; Custom : AnsiString; end
6719:   THTTPTransferEncodingEnum', '( hteNone, hteCustom, hteChunked )'
6720:   THTTPTransferEncoding', 'record Value : THTTPTransferEncodingEnum'
6721:   +'m; Custom : AnsiString; end
6722:   THTTPConnectionFieldEnum', '( hcfcNone, hcfcCustom, hcfcClose, hcfcKeepAlive )'
6723:   THTTPConnectionField', 'record Value : THTTPConnectionFieldEnum; '
6724:   +' Custom : AnsiString; end
6725:   THTTPAgeFieldEnum', '( hafNone, hafCustom, hafAge )'
6726:   THTTPAgeField', 'record Value: THTTPAgeFieldEnum; Age : Int64;Custom:AnsiString; end
6727:   THTTPCacheControlFieldEnum', '( hccfNone, hccfDecoded, hccfCustom )'
6728:   THTTPCacheControlRequestSubField', '( hccsfNoCache, hccsfNoStore'
6729:   +' , hccsfMaxAge, hccsfMaxStale, hccsfMinFresh, hccsfNoTransform, hccsfOnlyIfCached )'
6730:   THTTPCacheControlResponseSubField', '( hccrfPublic, hccrfPrivate'
6731:   +' , hccrfNoCache, hccrfNoStore, hccrfNoTransform, hccrfMustRevalidate, hccrf'
6732:   +'ProxyRevalidate, hccrfMaxAge, hccrfSMaxAge )'
6733:   THTTPCacheControlField', 'record Value : THTTPCacheControlFieldEnum; end'
6734:   THTTPContentEncodingEnum', '( hceNone, hceCustom, hceIdentity, h'
6735:   +'ceCompress, hceDeflate, hceExi, hceGzip, hcePack200Gzip )'
6736:   THTTPContentEncoding', 'record Value:THTTPContentEncodingEnum;Custom:AnsiString; end'
6737:   THTTPContentEncodingFieldEnum', '( hcfcNone, hcfcList )'
6738:   THTTPContentEncodingField', 'record Value : THTTPContentEncoding'
6739:   +'FieldEnum; List : array of THTTPContentEncoding; end
6740:   THTTPRetryAfterFieldEnum', '( hrnfNone, hrnfCustom, harfDate, harfSeconds )'
6741:   THTTPRetryAfterField', 'record Value : THTTPRetryAfterFieldEnum; '
6742:   +' Custom : AnsiString; Date : TDateTime; Seconds : Int64; end
6743:   THTTPContentRangeFieldEnum', '( hcrcNone, hcrcCustom, hcrcByteRange )'
6744:   THTTPContentRangeField', 'record Value : THTTPContentRangeFieldE'
6745:   +'num; ByteFirst : Int64; ByteLast : Int64; ByteSize : Int64; Custom : AnsiString; end
6746:   THTTPSetCookieFieldEnum', '( hscoNone, hscoDecoded, hscoCustom )'
6747:   THTTPSetCookieCustomField', 'record Name : AnsiString; Value : AnsiString; end

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

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6828: Procedure BuildStrHTTPConnectionFieldValue( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
6829: const P : THTTPStringOptions)
6830: Procedure BuildStrHTTPConnectionField( const A : THTTPConnectionField; const B : TAnsiStringBuilder;
6831: const P : THTTPStringOptions)
6832: Procedure BuildStrHTTPPageField(const A:THTTPPageField;const B:TAnsiStringBuilder;const
6833: P:THTTPStringOptions);
6834: Procedure BuildStrHTTPContentEncoding( const A : THTTPContentEncoding; const B : TAnsiStringBuilder;
6835: const P : THTTPStringOptions)
6836: Procedure BuildStrHTTPContentEncodingField(const A:THTTPContentEncodingField;const
6837: B:TAnsiStringBuilder;const P:THTTPStringOptions)
6838: Procedure BuildStrHTTPProxyConnectionField(const A : THTTPConnectionField; const B : TAnsiStringBuilder;
6839: const P : THTTPStringOptions)
6840: Procedure BuildStrHTTPCommonHeaders( const A : THTTPCommonHeaders; const B : TAnsiStringBuilder; const P
6841: : THTTPStringOptions)
6842: Procedure BuildStrHTTPFixedHeaders(const A:THTTPFixedHeaders;const B:TAnsiStrBuilder;const
6843: P:THTTPStringOptions)
6844: Procedure BuildStrHTTPCustomHeaders( const A : THTTPCustomHeaders; const B : TAnsiStringBuilder; const P
6845: : THTTPStringOptions)
6846: Procedure BuildStrHTTPSetCookieFieldValue( const A : THTTPSetCookieField; const B : TAnsiStringBuilder;
6847: const P : THTTPStringOptions)
6848: Procedure BuildStrHTTPCookieFieldValue( const A : THTTPCookieField; const B : TAnsiStringBuilder; const P
6849: : THTTPStringOptions)
6850: Procedure BuildStrHTTPCookieField(const A:THTTPCookieField;const B:TAnsiStrBuilder;const
6851: P:THTTPStringOptions);
6852: Procedure BuildStrHTTPMethod( const A : THTTPMethod; const B : TAnsiStringBuilder; const P :
6853: THTTPStringOptions)
6854: Procedure BuildStrHTTPRequestStartLine( const A : THTTPRequestStartLine; const B : TAnsiStringBuilder;
6855: const P : THTTPStringOptions)
6856: Procedure BuildStrHTTPRequestHeader(const A:THTTPRequestHeader;const B:TAnsiStringBuilder;const
6857: P:THTTPStringOptions);
6858: Procedure BuildStrHTTPResponseCookieFieldArray( const A : THTTPSetCookieFieldArray; const B :
6859: TAnsiStringBuilder; const P : THTTPStringOptions)
6860: Procedure BuildStrHTTPResponseStartLine(const A:THTTPResponseStartLine;const B:TAnsiStrBldr;const P
6861: THTTPStrOptions);
6862: Procedure BuildStrHTTPResponseHeader(const A:THTTPRespHeader;const B:TAnsiStrBuilder;const
6863: P:THTTPStringOptions);
6864: Procedure BuildStrHTTPResponse(const A:THTTPResponse; const B:TAnsiStringBuilder; const
6865: P:THTTPStringOptions);
6866: Function HTTPContentTypeValueToStr( const A : THTTPContentType ) : AnsiString
6867: Function HTTPSetCookieFieldValueToStr( const A : THTTPSetCookieField ) : AnsiString
6868: Function HTTPCookieFieldValueToStr( const A : THTTPCookieField ) : AnsiString
6869: Function HTTPMethodToStr( const A : THTTPMethod ) : AnsiString
6870: Function HTTPRequestToStr( const A : THTTPRequest ) : AnsiString
6871: Function HTTPResponseToStr( const A : THTTPResponse ) : AnsiString
6872: Procedure PrepareCookie(var A:THTTPCookieField;const B:THTTPSetCookieFieldArray;const
6873: Domain:AnsiString;const Secure:Bool; THTTPParserHeaderParseFunc', 'Function ( const HeaderName : THTT'
6874: +PHeaderNameEnum; const HeaderPtr : __Pointer ) : Boolean
6875: SIRegister_THTTPParser(CL);
6876: FindClass('TOBJECT'), 'THTTPContentDecoder
6877: THTTPContentDecoderProc', 'Procedure ( const Sender : THTTPContentDecoder )
6878: THTTPContentDecoderContentType', '( crctFixedSize, crctChunked, crctUnsized )
6879: THTTPContentDecoderChunkState', '( crcsChunkHeader, crcsContent,
6880: +' crcsContentCRLF, crcsTrailer, crcsFinished )
6881: THTTPContentDecoderLogEvent', 'Procedure ( const Sender : THTTPContentDecoder; const LogMsg : String )
6882: SIRegister_THTTPContentDecoder(CL);
6883: THTTPContentReaderMechanism', '( hcrmEvent, hcrmString, hcrmStream, hcrmFile )
6884: FindClass('TOBJECT'), 'THTTPContentReader
6885: THTTPContentReaderProc', 'Procedure ( const Sender : THTTPContentReader )
6886: THTTPContentReaderLogEvent', 'Procedure(const Sender:THTTPContentReader;const LogMsg:String;const
6887: LogLevel:Int;
6888: SIRegister_THTTPContentReader(CL);
6889: THTTPContentWriterMechanism', '( hctmEvent, hctmString, hctmStream, hctmFile )
6890: FindClass('TOBJECT'), 'THTTPContentWriter
6891: THTTPContentWriterLogEvent', 'Procedure ( const Sender : THTTPContentWriter;const LogMsg:AnsiString );
6892: SIRegister_THTTPContentWriter(CL);
6893: Procedure SelfTestcHTTPUtils
6894: end;
6895:
6896: (*-----*)
6897: procedure SIRegister_cTLSUtils(CL: TPPascalCompiler);
6898: begin
6899: 'TLSLibraryVersion', 'String '1.00
6900: 'TLSerror_None', 'LongInt'( 0 );
6901: 'TLSerror_InvalidBuffer', 'LongInt'( 1 );
6902: 'TLSerror_InvalidParameter', 'LongInt'( 2 );
6903: 'TLSerror_InvalidCertificate', 'LongInt'( 3 );
6904: 'TLSerror_InvalidState', 'LongInt'( 4 );
6905: 'TLSerror_DecodeError', 'LongInt'( 5 );
6906: 'TLSerror_BadProtocol', 'LongInt'( 6 );
6907: Function TLSErrorMessage( const TLSError : Integer ) : String
6908: SIRegister_ETLSError(CL);
6909: TTLSProtocolVersion', 'record major : Byte; minor : Byte; end
6910: PTLSProtocolVersion', '^TTLSProtocolVersion // will not work
6911: Procedure InitSSLProtocolVersion30( var A : TTLSProtocolVersion )
6912: Procedure InitTLSProtocolVersion10( var A : TTLSProtocolVersion )
6913: Procedure InitTLSProtocolVersion11( var A : TTLSProtocolVersion )
6914: Procedure InitTLSProtocolVersion12( var A : TTLSProtocolVersion )

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6895: Function IsTLSProtocolVersion( const A, B : TTLSProtocolVersion ) : Boolean
6896: Function IsSSL2( const A : TTLSProtocolVersion ) : Boolean
6897: Function IsSSL3( const A : TTLSProtocolVersion ) : Boolean
6898: Function IsTLS10( const A : TTLSProtocolVersion ) : Boolean
6899: Function IsTLS11( const A : TTLSProtocolVersion ) : Boolean
6900: Function IsTLS12( const A : TTLSProtocolVersion ) : Boolean
6901: Function IsTLS10OrLater( const A : TTLSProtocolVersion ) : Boolean
6902: Function IsTLS11OrLater( const A : TTLSProtocolVersion ) : Boolean
6903: Function IsTLS12OrLater( const A : TTLSProtocolVersion ) : Boolean
6904: Function IsFutureTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6905: Function IsKnownTLSVersion( const A : TTLSProtocolVersion ) : Boolean
6906: Function TLSProtocolVersionToStr( const A : TTLSProtocolVersion ) : String
6907: Function TLSProtocolVersionName( const A : TTLSProtocolVersion ) : String
6908: PTLSRandom', '^TLSRandom // will not work
6909: Procedure InitTLSRandom( var Random : TTLSRandom )
6910: Function TLSRandomToStr( const Random : TTLSRandom ) : AnsiString
6911: 'TLSSESSIONIDMaxLen', 'LongInt'( 32 );
6912: Procedure InitTLSSessionID( var SessionID : TTLSsessionID; const A : AnsiString )
6913: Function EncodeTLSSessionID(var Buffer:string;const Size:Int;const SessionID:TTLSsessionID):Int;
6914: Function DecodeTLSSessionID(const Buffer:string;const Size:Int;var SessionID:TTLSsessionID):Int;
6915: TTLSignatureAndHashAlgorithm', 'record Hash : TTLSShashAlgorithm'
6916: +' ; Signature : TTLSignatureAlgorithm; end
6917: // TTLSignatureAndHashAlgorithm', '^TTLSignatureAndHashAlgorithm'// will not work
6918: TTLSignatureAndHashAlgorithmArray', 'array of TTLSignatureAndHashAlgorithm
6919: TTLSKeyExchangeAlgorithm', '( tlskeaNone, tlskeaNULL, tlskeaDHE_'
6920: +'DSS, tlskeaDHE_RSA, tlskeaDH_Anon, tlskeaRSA, tlskeaDH_DSS, tlskeaDH_RSA )
6921: TTLSMACAlgorithm', '( tlsmacNone, tlsmacNULL, tlsmacHMAC_MD5, tlsmac'
6922: +'HMAC_SHA1, tlsmacHMAC_SHA256, tlsmacHMAC_SHA384, tlsmacHMAC_SHA512 )
6923: TTLSMacAlgorithmInfo', 'record Name : AnsiString; DigestSize : I'
6924: +'nteger; Supported : Boolean; end
6925: TLSSMacAlgorithmInfo', '^TTLSMacAlgorithmInfo // will not work
6926: 'TLS_MAC_MAXDIGESTSIZE', 'LongInt'( 64 );
6927: TTLSPRFAlgorithm', '( tlspaSHA256 )
6928: Function tlsp_MD5( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6929: Function tlsp_SHA1( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6930: Function tlsp_SHA256( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6931: Function tlsp_SHA512( const Secret, Seed : AnsiString; const Size : Integer ) : AnsiString
6932: Function tlsp1OPRF( const Secret, ALABEL, Seed : AnsiString; const Size : Integer ) : AnsiString
6933: Function tlsp12OPRF_SHA256( const Secret, ALABEL, Seed : AnsiString; const Size : Integer ) : AnsiString
6934: Function tlsp12OPRF_SHA512( const Secret, ALABEL, Seed : AnsiString; const Size : Integer ) : AnsiString
6935: Function TLSPRF( const ProtoVersion:TTLSProtocolVersion;const Secret,ALABEL,Seed:AString;const
Size:Int):AString;
6936: Function tlsp10KeyBlock(const MasterSecret, ServerRandom,ClientRandom:AnsiString; const
Size:Int):AnsiString
6937: Function tlsp12SHA256KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):Ansistring;
6938: Function tlsp12SHA512KeyBlock(const MasterSecret,ServerRandom,ClientRandom: AnsiString;const
Size:Int):Ansistring;
6939: Function TLSKeyBlock(const ProtocolVersion:TTLSProtocolVersion; const MasterSecret, ServerRandom,
ClientRandom : AnsiString; const Size : Integer ) : AnsiString
6940: Function tlsp10MasterSecret(const PreMasterSecret,ClientRandom, ServerRandom:AnsiString) :AnsiString;
6941: Function tlsp12SHA256MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString):AnsiString;
6942: Function tlsp12SHA512MasterSecret(const PreMasterSecret,ClientRandom,ServerRandom:AnsiString): AnsiString;
6943: Function TLSMasterSecret( const ProtocolVersion: TTLSProtocolVersion;const PreMasterSecret,ClientRandom,
ServerRandom:AnsiString ) : AnsiString
6944: TTLSKeys', 'record KeyBlock : AnsiString; ClientMACKey : AnsiStr'
6945: +'ing; ServerMACKey : AnsiString; ClientEncKey : AnsiString; ServerEncKey : '
6946: +'Ansistring; ClientIV : AnsiString; ServerIV : AnsiString; end
6947: Procedure GenerateTLSKeys( const ProtocolVersion : TTLSProtocolVersion; const MACKeyBits, CipherKeyBits,
IVBits : Integer; const MasterSecret, ServerRandom, ClientRandom : AnsiString; var TLSKeys : TTLSKeys )
6948: Procedure GenerateFinalTLSKeys(const ProtocolVersion:TTLSProtocolVersion;const IsExportable:Boolean;const
ExpandedKeyBits:Integer;const ServerRandom,ClientRandom:AnsiString;var TLSKeys:TTLSKeys)
6949: 'TLS_PLAINTEXT_FRAGMENT_MAXSIZE','LongInt'( 16384 - 1 );
6950: 'TLS_COMPRESSED_FRAGMENT_MAXSIZE','LongInt'( 16384 + 1024 );
6951: Procedure SelfTestcTLSUtils
6952: end;
6953:
6954: (*-----*)
6955: procedure SIRegister_Reversi(CL: TPSPascalCompiler);
6956: begin
6957:   sPosData', 'record corner : boolean; square2x2 : boolean; edge:boolean; stable : integer; internal :
integer; disks : integer; mx : integer; my : integer; end
6958: // pBoard', '^tBoard // will not work
6959: Function rCalculateData( cc : byte; cx, cy : integer ) : sPosData
6960: Function rCheckMove( color : byte; cx, cy : integer ) : integer
6961: //Function rDoStep( data : pBoard ) : word
6962: Function winExecAndWait( const sAppPath : string; wVisible : word ) : boolean
6963: end;
6964:
6965: procedure SIRegister_IWDBCommon(CL: TPSPascalCompiler);
6966: begin
6967: Function InEditMode( ADataSet : TDataSet ) : Boolean
6968: Function CheckDataSource( ADataSource : TDataSource ) : Boolean;
6969: Function CheckDataSource1( ADataSource:TDataSource;const AFieldName:string;var VField:TField):boolean;
6970: Function GetFieldText( AField : TField ) : String
6971: end;
6972:
6973: procedure SIRegister_SortGrid(CL: TPSPascalCompiler);
6974: begin

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

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7063: Function LogicalAnd( A, B : Integer ) : Boolean
7064: record TByHandleFileInformation dwFileAttributes : DWORD; '
7065:   +'ftCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime '
7066:   +' : TFileTime; dwVolumeSerialNumber : DWORD; nFileSizeHigh : DWORD; nFilesize'
7067:   +'eLow : DWORD; nNumberOfLinks : DWORD; nFileIndexHigh : DWORD; nFileIndexLow : DWORD; end
7068: Function GetFileInformationByHandle(hFile:THandle;var lpFileInformation:TByHandleFileInformation):BOOL;
7069: Function IsFirstInstance : Boolean
7070: Procedure ActivateFirst( AString : PChar)
7071: Procedure ActivateFirstCommandLine
7072: function MakeAckPkt(const BlockNumber: Word): string;
7073: procedure SendError(UDPBase:TIdUDPBase;APeerIP:string;const APort:Int;const ErrNumber:Word;ErrStr:string;
7074: procedure SendError(UDPCClient: TIdUDPCClient; const ErrNumber: Word; ErrorString: string); overload;
7075: procedure SendError(UDPBase: TIdUDPBase; APeerIP: string; const APort: Integer; E: Exception); overload;
7076: procedure SendError(UDPCClient: TIdUDPCClient; E: Exception); overload;
7077: function IdStrToWord(const Value: String): Word;
7078: function IdWordToStr(const Value: Word): WordStr;
7079: Function HasInstructionSet( const InstructionSet : TCPUIInstructionSet ) : Boolean
7080: Function CPUFeatures : TCPUFeatures
7081:
7082: procedure SIRegister_xrtl_util_CPUUtils(CL: TPSPascalCompiler);
7083: begin
7084:   AddTypeS('TXRTLBitIndex', 'Integer'
7085:   Function XRTLSwapBits( Data : Cardinal; Bit1Index, Bit2Index : TXRTLBitIndex ) : Cardinal
7086:   Function XRTLBitTest( Data : Cardinal; BitIndex : TXRTLBitIndex ) : Boolean
7087:   Function XRTLBitSet( Data : Cardinal; BitIndex : TXRTLBitIndex ) : Cardinal
7088:   Function XRTLBitReset( Data : Cardinal; BitIndex : TXRTLBitIndex ) : Cardinal
7089:   Function XRTLBitComplement( Data : Cardinal; BitIndex : TXRTLBitIndex ) : Cardinal
7090:   Function XRTLSwapHiLo16( X : Word ) : Word
7091:   Function XRTLSwapHiLo32( X : Cardinal ) : Cardinal
7092:   Function XRTLSwapHiLo64( X : Int64 ) : Int64
7093:   Function XRTLROL32( A, S : Cardinal ) : Cardinal
7094:   Function XRTLROLR32( A, S : Cardinal ) : Cardinal
7095:   Function XRTLROL16( A : Word; S : Cardinal ) : Word
7096:   Function XRTLROLR16( A : Word; S : Cardinal ) : Word
7097:   Function XRTLROL8( A : Byte; S : Cardinal ) : Byte
7098:   Function XRTLROLR8( A : Byte; S : Cardinal ) : Byte
7099: //Procedure XRTLXorBlock( I1, I2, O1 : PByteArray; Len : integer)
7100: //Procedure XRTLIncBlock( P : PByteArray; Len : integer)
7101: Procedure XRTLUMul64( const A, B : Integer; var MulL, MulH : Integer )
7102: Function XRTLPopulation( A : Cardinal ) : Cardinal
7103: end;
7104:
7105: Function XRTLURLDecode( const ASrc : WideString ) : WideString
7106: Function XRTLURLEncode( const ASrc : WideString ) : WideString
7107: Function XRTLURINormalize( const AURI : WideString ) : WideString
7108: Procedure XRTLURIParse(const AURI:WideString;var VProtocol,VHost,VPath,VDocument,VPort,VBookmark,VUserName,
    VPassword : WideString)
7109: Function XRTLExtractLongPathName(APath: string): string;
7110:
7111: procedure SIRegister_cFundamentUtils(CL: TPSPascalCompiler);
7112: begin
7113:   AddTypeS('Int8', 'ShortInt
7114:   AddTypeS('Int16', 'SmallInt
7115:   AddTypeS('Int32', 'LongInt
7116:   AddTypeS('UInt8', 'Byte
7117:   AddTypeS('UInt16', 'Word
7118:   AddTypeS('UInt32', 'LongWord
7119:   AddTypeS('UInt64', 'Int64
7120:   AddTypeS('Word8', 'UInt8
7121:   AddTypeS('Word16', 'UInt16
7122:   AddTypeS('Word32', 'UInt32
7123:   AddTypeS('Word64', 'UInt64
7124:   AddTypeS('LargeInt', 'Int64
7125:   AddTypeS('NativeInt', 'Integer
7126:   AddTypeS('NativeUInt', 'Cardinal
7127:   Const('BitsPerByte', 'LongInt'( 8 );
7128:   Const('BitsPerWord', 'LongInt'( 16 );
7129:   Const('BitsPerLongWord','LongInt'( 32 );
7130: //Const('BitsPerCardinal','LongInt'( BytesPerCardinal * 8 );
7131: //Const('BitsPerNativeWord','LongInt'( BytesPerNativeWord * 8 );
7132: Function MinI( const A, B : Integer ) : Integer
7133: Function MaxI( const A, B : Integer ) : Integer
7134: Function MinC( const A, B : Cardinal ) : Cardinal
7135: Function MaxC( const A, B : Cardinal ) : Cardinal
7136: Function SumClipI( const A, I : Integer ) : Integer
7137: Function SumClipC( const A : Cardinal; const I : Integer ) : Cardinal
7138: Function InByteRange( const A : Int64 ) : Boolean
7139: Function InWordRange( const A : Int64 ) : Boolean
7140: Function InLongWordRange( const A : Int64 ) : Boolean
7141: Function InShortIntRange( const A : Int64 ) : Boolean
7142: Function InSmallIntRange( const A : Int64 ) : Boolean
7143: Function InLongIntRange( const A : Int64 ) : Boolean
7144: AddTypeS('Bool18', 'ByteBool
7145: AddTypeS('Bool16', 'WordBool
7146: AddTypeS('Bool32', 'LongBool
7147: AddTypeS('TCompareResult', '( crLess, crEqual, crGreater, crUndefined )
7148: AddTypeS('TCompareResultSet', 'set of TCompareResult
7149: Function ReverseCompareResult( const C : TCompareResult ) : TCompareResult
7150: Const('MinSingle','Single').setExtended( 1.5E-45 );

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7151: Const('MaxSingle','Single').setExtended( 3.4E+38);
7152: Const('MinDouble','Double').setExtended( 5.0E-324);
7153: Const('MaxDouble','Double').setExtended( 1.7E+308);
7154: Const('MinExtended','Extended').setExtended(3.4E-4932);
7155: Const('MaxExtended','Extended').setExtended(1.1E+4932);
7156: Const('MinCurrency','Currency').SetExtended( - 922337203685477.5807);
7157: Const('MaxCurrency','Currency').SetExtended( 922337203685477.5807);
7158: Function MinF( const A, B : Float) : Float
7159: Function MaxF( const A, B : Float) : Float
7160: Function ClipF( const Value : Float; const Low, High : Float) : Float
7161: Function InSingleRange( const A : Float) : Boolean
7162: Function InDoubleRange( const A : Float) : Boolean
7163: Function InCurrencyRange( const A : Float) : Boolean;
7164: Function InCurrencyRangel( const A : Int64) : Boolean;
7165: Function FloatExponentBase2( const A : Extended; var Exponent : Integer) : Boolean
7166: Function FloatExponentBase10( const A : Extended; var Exponent : Integer) : Boolean
7167: Function FloatIsInfinity( const A : Extended) : Boolean
7168: Function FloatIsNaN( const A : Extended) : Boolean
7169: Const('SingleCompareDelta','Extended').setExtended( 1.0E-34);
7170: Const('DoubleCompareDelta','Extended').setExtended( 1.0E-280);
7171: Const('ExtendedCompareDelta','Extended').setExtended( 1.0E-4400);
7172: Const('DefaultCompareDelta','Extended').SetExtended( 1.0E-34);
7173: Function FloatZero( const A : Float; const CompareDelta : Float) : Boolean
7174: Function FloatOne( const A : Float; const CompareDelta : Float) : Boolean
7175: Function FloatsEqual( const A, B : Float; const CompareDelta : Float) : Boolean
7176: Function FloatsCompare( const A, B : Float; const CompareDelta : Float) : TCompareResult
7177: Const('SingleCompareEpsilon','Extended').setExtended( 1.0E-5);
7178: Const('DoubleCompareEpsilon','Extended').setExtended( 1.0E-13);
7179: Const('ExtendedCompareEpsilon','Extended').setExtended( 1.0E-17);
7180: Const('DefaultCompareEpsilon','Extended').setExtended( 1.0E-10);
7181: Function ApproxEqual( const A, B : Extended; const CompareEpsilon : Double) : Boolean
7182: Function ApproxCompare( const A, B : Extended; const CompareEpsilon : Double) : TCompareResult
7183: Function cClearBit( const Value, BitIndex : LongWord) : LongWord
7184: Function cSetBit( const Value, BitIndex : LongWord) : LongWord
7185: Function cIsBitSet( const Value, BitIndex : LongWord) : Boolean
7186: Function cToggleBit( const Value, BitIndex : LongWord) : LongWord
7187: Function cIshighBitSet( const Value : LongWord) : Boolean
7188: Function SetBitScanForward( const Value : LongWord) : Integer;
7189: Function SetBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7190: Function SetBitScanReverse( const Value : LongWord) : Integer;
7191: Function SetBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7192: Function ClearBitScanForward( const Value : LongWord) : Integer;
7193: Function ClearBitScanForward1( const Value, BitIndex : LongWord) : Integer;
7194: Function ClearBitScanReverse( const Value : LongWord) : Integer;
7195: Function ClearBitScanReverse1( const Value, BitIndex : LongWord) : Integer;
7196: Function cReverseBits( const Value : LongWord) : LongWord;
7197: Function cReversebits1( const Value : LongWord; const BitCount : Integer) : LongWord;
7198: Function cSwapEndian( const Value : LongWord) : LongWord
7199: Function cTwosComplement( const Value : LongWord) : LongWord
7200: Function RotateLeftBits16( const Value : Word; const Bits : Byte) : Word
7201: Function RotateLeftBits32( const Value : LongWord; const Bits : Byte) : LongWord
7202: Function RotateRightBits16( const Value : Word; const Bits : Byte) : Word
7203: Function RotateRightBits32( const Value : LongWord; const Bits : Byte) : LongWord
7204: Function cBitCount( const Value : LongWord) : LongWord
7205: Function cIsPowerOfTwo( const Value : LongWord) : Boolean
7206: Function LowbitMask( const HighBitIndex : LongWord) : LongWord
7207: Function HighBitMask( const LowBitIndex : LongWord) : LongWord
7208: Function RangeBitMask( const LowBitIndex, HighBitIndex : LongWord) : LongWord
7209: Function SetBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7210: Function ClearBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7211: Function ToggleBitRange( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : LongWord
7212: Function IsBitRangeSet( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7213: Function IsBitRangeClear( const Value : LongWord; const LowBitIndex, HighBitIndex : LongWord) : Boolean
7214: // AddTypeS('CharSet', 'set of AnsiChar'
7215: AddTypeS('CharSet', 'set of Char' //!!!
7216: AddTypes('AnsiCharSet', 'TCharSet'
7217: AddTypes('ByteSet', 'set of Byte'
7218: AddTypes('AnsiChar', 'Char'
7219: // Function AsCharSet( const C : array of AnsiChar) : CharSet
7220: Function AsByteSet( const C : array of Byte) : ByteSet
7221: Procedure ComplementChar( var C : CharSet; const Ch : Char)
7222: Procedure ClearCharSet( var C : CharSet)
7223: Procedure FillCharSet( var C : CharSet)
7224: Procedure ComplementCharSet( var C : CharSet)
7225: Procedure AssignCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7226: Procedure Union( var DestSet : CharSet; const SourceSet : CharSet)
7227: Procedure Difference( var DestSet : CharSet; const SourceSet : CharSet)
7228: Procedure Intersection( var DestSet : CharSet; const SourceSet : CharSet)
7229: Procedure XORCharSet( var DestSet : CharSet; const SourceSet : CharSet)
7230: Function IsSubSet( const A, B : CharSet) : Boolean
7231: Function IsEqual( const A, B : CharSet) : Boolean
7232: Function IsEmpty( const C : CharSet) : Boolean
7233: Function IsComplete( const C : CharSet) : Boolean
7234: Function cCharCount( const C : CharSet) : Integer
7235: Procedure ConvertCaseInsensitive( var C : CharSet)
7236: Function CaseInsensitiveCharSet( const C : CharSet) : CharSet
7237: Function IntRangeLength( const Low, High : Integer) : Int64
7238: Function IntRangeAdjacent( const Low1, High1, Low2, High2 : Integer) : Boolean
7239: Function IntRangeOverlap( const Low1, High1, Low2, High2 : Integer) : Boolean

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

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7329: Function HexToLongWord( const S : String ) : LongWord
7330: Function TryOctToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7331: Function TryOctToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7332: Function TryOctToLongWord( const S : String; out A : LongWord ) : Boolean
7333: Function OctToLongWordA( const S : AnsiString ) : LongWord
7334: Function OctToLongWordW( const S : WideString ) : LongWord
7335: Function OctToLongWord( const S : String ) : LongWord
7336: Function TryBinToLongWordA( const S : AnsiString; out A : LongWord ) : Boolean
7337: Function TryBinToLongWordW( const S : WideString; out A : LongWord ) : Boolean
7338: Function TryBinToLongWord( const S : String; out A : LongWord ) : Boolean
7339: Function BinToLongWordA( const S : AnsiString ) : LongWord
7340: Function BinToLongWordW( const S : WideString ) : LongWord
7341: Function BinToLongWord( const S : String ) : LongWord
7342: Function FloatToStringA( const A : Extended ) : AnsiString
7343: Function FloatToStringW( const A : Extended ) : WideString
7344: Function FloatToString( const A : Extended ) : String
7345: Function TryStringToFloatA( const A : AnsiString; out B : Extended ) : Boolean
7346: Function TryStringToFloatW( const A : WideString; out B : Extended ) : Boolean
7347: Function TryStringToFloat( const A : String; out B : Extended ) : Boolean
7348: Function StringToFloatA( const A : AnsiString ) : Extended
7349: Function StringToFloatW( const A : WideString ) : Extended
7350: Function StringToFloat( const A : String ) : Extended
7351: Function StringToFloatDefA( const A : AnsiString; const Default : Extended ) : Extended
7352: Function StringToFloatDefW( const A : WideString; const Default : Extended ) : Extended
7353: Function StringToFloatDef( const A : String; const Default : Extended ) : Extended
7354: Function EncodeBase64( const S:Alphabet:AnsiString; const Pad:Boolean;const PadMultiple:Integer;const PadChar: AnsiChar ) : AnsiString
7355: Function DecodeBase64( const S, Alphabet : AnsiString; const PadSet : CharSet ) : AnsiString
7356: unit uPSI_cfFundamentUtils;
7357: Const('b64_MIMEBase64','Str').String('ABCDEFHIGHJKLMNOPQRSTUWXZYabcdeghi jklmnopqrstuvwxyz0123456789+');
7358: Const('b64_UUEncode','String').String('!#$%&'()*+,.-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUWXZY[\]^_');
7359: Const('b64_XXEncode','String').String('+0123456789ABCDEFGHIJKLMNOPQRSTUWXZYabcdeghi jklmnopqrstuvwxyz');
7360: Const('CCHARSET','Stringb64_XXEncode');
7361: Const('CHEXSET','String'0123456789ABCDEF
7362: Const('HEXDIGITS','String'0123456789ABCDEF
7363: StHexDigits : array[0..$F] of Char = '0123456789ABCDEF';
7364: Const('DIGISET','String'0123456789
7365: Const('LETTERSET','String'ABCDEFHIGHJKLMNOPQRSTUWXZY'
7366: Const('DIGISET2','TCharset').SetSet('0123456789'
7367: Const('LETTERSET2','TCharset').SetSet('ABCDEFHIGHJKLMNOPQRSTUWXZY'
7368: Const('HEXSET2','TCharset').SetSet('0123456789ABCDEF');
7369: Const('NUMBERSET','TCharset').SetSet('0123456789');
7370: Const('NUMBERS','String'0123456789');
7371: Const('NUMBERS','String'ABCDEFHIGHJKLMNOPQRSTUWXZY');
7372: Function CharSetToStr( const C : CharSet ) : AnsiString
7373: Function StrToCharSet( const S : AnsiString ) : CharSet
7374: Function MIMEBase64Decode( const S : AnsiString ) : AnsiString
7375: Function MIMEBase64Encode( const S : AnsiString ) : AnsiString
7376: Function UUDecode( const S : AnsiString ) : AnsiString
7377: Function XXDecode( const S : AnsiString ) : AnsiString
7378: Function BytesToHex( const P : array of Byte; const UpperCase : Boolean ) : AnsiString
7379: Function InterfaceToStrA( const I : IInterface ) : AnsiString
7380: Function InterfaceToStrW( const I : IInterface ) : WideString
7381: Function InterfaceToStr( const I : IInterface ) : String
7382: Function ObjectClassName( const O : TObject ) : String
7383: Function ClassClassName( const C : TClass ) : String
7384: Function ObjectToStr( const O : TObject ) : String
7385: Function ObjectToString( const O : TObject ) : String
7386: Function CharSetToStr( const C : CharSet ) : AnsiString
7387: Function StrToCharSet( const S : AnsiString ) : CharSet
7388: Function HashStrA( const S : AnsiString; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7389: Function HashStrW( const S:WideString;const Index:Integer;const Count:Integer;const AsciiCaseSensitive:Boolean; const Slots:LongWord ) : LongWord
7390: Function HashStr( const S : String; const Index : Integer; const Count : Integer; const AsciiCaseSensitive : Boolean; const Slots : LongWord ) : LongWord
7391: Function HashInteger( const I : Integer; const Slots : LongWord ) : LongWord
7392: Function HashLongWord( const I : LongWord; const Slots : LongWord ) : LongWord
7393: Const('Bytes1KB','LongInt'( 1024 );
7394: SIRegister_IInterface(CL);
7395: Procedure SelfTestCFundamentUtils
7396:
7397: Function CreateSchedule : IJclSchedule
7398: Function NullStamp : TTimeStamp
7399: Function CompareTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Int64
7400: Function EqualTimeStamps( const Stamp1, Stamp2 : TTimeStamp ) : Boolean
7401: Function IsNullTimeStamp( const Stamp : TTimeStamp ) : Boolean
7402:
7403: procedure SIRegister_uwinplot(CL: TPSPascalCompiler);
7404: begin
7405: AddTypeS('TFunc', 'function(X : Float) : Float;
7406: Function InitGraphics( Width, Height : Integer ) : Boolean
7407: Procedure SetWindow( Canvas : TCanvas; X1, X2, Y1, Y2 : Integer; GraphBorder : Boolean )
7408: Procedure SetOxScale( Scale : TScale; OxMin, OxMax, OxStep : Float )
7409: Procedure SetOyScale( Scale : TScale; OyMin, OyMax, OyStep : Float )
7410: Procedure GetOxScale( var Scale : TScale; var OxMin, OxMax, OxStep : Float )
7411: Procedure GetOyScale( var Scale : TScale; var OyMin, OyMax, OyStep : Float )
7412: Procedure SetGraphTitle( Title : String )
7413: Procedure SetOxTitle( Title : String )

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

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7503: Function uExp2( X : Float ) : Float
7504: Function uExp10( X : Float ) : Float
7505: Function uLog( X : Float ) : Float
7506: Function uLog2( X : Float ) : Float
7507: Function uLog10( X : Float ) : Float
7508: Function uLogA( X, A : Float ) : Float
7509: Function uIntPower( X : Float; N : Integer) : Float
7510: Function uPower( X, Y : Float ) : Float
7511: Function SgnGamma( X : Float ) : Integer
7512: Function Stirling( X : Float ) : Float
7513: Function StirLog( X : Float ) : Float
7514: Function Gamma( X : Float ) : Float
7515: Function LnGamma( X : Float ) : Float
7516: Function DiGamma( X : Float ) : Float
7517: Function TriGamma( X : Float ) : Float
7518: Function IGamma( X : Float ) : Float
7519: Function JGamma( X : Float ) : Float
7520: Function InvGamma( X : Float ) : Float
7521: Function Erf( X : Float ) : Float
7522: Function Erfc( X : Float ) : Float
7523: Function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7524: { Correlation coefficient between samples X and Y }
7525: function DBeta(A, B, X : Float) : Float;
7526: { Density of Beta distribution with parameters A and B }
7527: Function LambertW( X : Float; UBranch, Offset : Boolean) : Float
7528: Function Beta(X, Y : Float) : Float
7529: Function Binomial( N, K : Integer ) : Float
7530: Function PBinom( N : Integer; P : Float; K : Integer ) : Float
7531: Procedure Cholesky( A, L : TMatrix; Lb, Ub : Integer)
7532: Procedure LU_Decompo( A : TMatrix; Lb, Ub : Integer)
7533: Procedure LU_Solve( A : TMatrix; B : TVector; Lb, Ub : Integer; X : TVector)
7534: Function DNorm( X : Float ) : Float
7535:
7536: function DGamma(A, B, X : Float) : Float;
7537: { Density of Gamma distribution with parameters A and B }
7538: function DKhi2(Nu : Integer; X : Float) : Float;
7539: { Density of Khi-2 distribution with Nu d.o.f. }
7540: function DStudent(Nu : Integer; X : Float) : Float;
7541: { Density of Student distribution with Nu d.o.f. }
7542: function DSnedecor(Nu1, Nu2 : Integer; X : Float) : Float;
7543: { Density of Fisher-Snedecor distribution with Nu1 and Nu2 d.o.f. }
7544: function IBeta(A, B, X : Float) : Float;
7545: { Incomplete Beta function }
7546: function Correl(X, Y : TVector; Lb, Ub : Integer) : Float;
7547:
7548: procedure SIRegister_unlfit(CL: TPSPPascalCompiler);
7549: begin
7550: Procedure SetOptAlgo( Algo : TOptAlgo )
7551: procedure SetOptAlgo(Algo : TOptAlgo);
7552: { -----
7553: Sets the optimization algorithm according to Algo, which must be
7554: NL_MARQ, NL_SIMP, NL_BFGS, NL_SA, NL_GA. Default is NL_MARQ }
7555:
7556: Function GetOptAlgo : TOptAlgo
7557: Procedure SetMaxParam( N : Byte )
7558: Function GetMaxParam : Byte
7559: Procedure SetParamBounds( I : Byte; ParamMin, ParamMax : Float )
7560: Procedure GetParamBounds( I : Byte; var ParamMin, ParamMax : Float )
7561: Function NullParam( B : TVector; Lb, Ub : Integer ) : Boolean
7562: Procedure NLPfit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix )
7563: Procedure WNLFit( RegFunc : TRegFunc; DerivProc : TDervProc; X, Y, S : TVector; Lb, Ub : Integer; MaxIter : Integer; Tol : Float; B : TVector; FirstPar, LastPar : Integer; V : TMatrix )
7564: Procedure SetMCFfile( FileName : String )
7565: Procedure SimFit(RegFunc:TRegFunc;X,Y:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix );
7566: Procedure WSimFit(RegFunc:TRegFunc; X,Y,S:TVector;Lb,Ub:Integer;B:TVector;FirstPar,LastPar:Integer;V:TMatrix );
7567: end;
7568:
7569: (*-----*)
7570: procedure SIRegister_usimplex(CL: TPSPPascalCompiler);
7571: begin
7572: Procedure SaveSimplex( FileName : string )
7573: Procedure Simplex(Func:TFuncNVar; X:TVector;Lb,Ub:Integer; MaxIter:Integer;Tol:Float; var F_min:Float );
7574: end;
7575: (*-----*)
7576: procedure SIRegister_uregtest(CL: TPSPPascalCompiler);
7577: begin
7578: Procedure RegTest(Y,Ycalc: TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest )
7579: Procedure WRegTest(Y,Ycalc,S:TVector;LbY,UbY:Integer;V:TMatrix;LbV,UbV:Integer;var Test:TRegTest );
7580: end;
7581:
7582: procedure SIRegister_ustrings(CL: TPSPPascalCompiler);
7583: begin
7584: Function LTrim( S : String ) : String
7585: Function RTrim( S : String ) : String
7586: Function uTrim( S : String ) : String
7587: Function StrChar( N : Byte; C : Char ) : String
7588: Function RFill( S : String; L : Byte ) : String

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7589: Function LFill( S : String; L : Byte) : String
7590: Function CFill( S : String; L : Byte) : String
7591: Function Replace( S : String; C1, C2 : Char) : String
7592: Function Extract( S : String; var Index : Byte; Delim : Char) : String
7593: Procedure Parse( S : String; Delim : Char; Field : TStrVector; var N : Byte)
7594: Procedure SetFormat( NumLength, MaxDec : Integer; FloatPoint, NSZero : Boolean)
7595: Function FloatStr( X : Float) : String
7596: Function IntStr( N : LongInt) : String
7597: Function uCompStr( Z : Complex) : String
7598: end;
7599:
7600: procedure SIRegister_uhyper(CL: TPSPascalCompiler);
7601: begin
7602:   Function uSinh( X : Float) : Float
7603:   Function uCosh( X : Float) : Float
7604:   Function uTanh( X : Float) : Float
7605:   Function uArcSinh( X : Float) : Float
7606:   Function uArcCosh( X : Float) : Float
7607:   Function ArcTanh( X : Float) : Float
7608:   Procedure SinhCosh( X : Float; var SinhX, CoshX : Float)
7609: end;
7610:
7611: procedure SIRegister_urandom(CL: TPSPascalCompiler);
7612: begin
7613: type RNG_Type =
7614:   (RNG_MWC,           { Multiply-With-Carry }
7615:    RNG_MT,            { Mersenne Twister }
7616:    RNG_UVAG);        { Universal Virtual Array Generator }
7617: Procedure SetRNG( RNG : RNG_Type)
7618: Procedure InitGen( Seed : RNG_IntType)
7619: Procedure SRand( Seed : RNG_IntType)
7620: Function IRanGen : RNG_IntType
7621: Function IRanGen31 : RNG_IntType
7622: Function RanGen1 : Float
7623: Function RanGen2 : Float
7624: Function RanGen3 : Float
7625: Function RanGen53 : Float
7626: end;
7627:
7628: // Optimization by Simulated Annealing
7629: procedure SIRegister_usimann(CL: TPSPascalCompiler);
7630: begin
7631:   Procedure InitSAParams( NT, NS, NCycles : Integer; RT : Float)
7632:   Procedure SA_CreateLogFile( FileName : String)
7633:   Procedure SimAnn(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7634: end;
7635:
7636: procedure SIRegister_uranuvag(CL: TPSPascalCompiler);
7637: begin
7638:   Procedure InitUVAGbyString( KeyPhrase : string)
7639:   Procedure InitUVAG( Seed : RNG_IntType)
7640:   Function IRanUVAG : RNG_IntType
7641: end;
7642:
7643: procedure SIRegister_ugenalg(CL: TPSPascalCompiler);
7644: begin
7645:   Procedure InitGAParams( NP, NG : Integer; SR, MR, HR : Float)
7646:   Procedure GA_CreateLogFile( LogFileName : String)
7647:   Procedure GenAlg(Func: TFuncNVar; X, Xmin, Xmax : TVector; Lb, Ub : Integer; var F_min : Float);
7648: end;
7649:
7650: TVector', 'array of Float
7651: procedure SIRegister_uqsort(CL: TPSPascalCompiler);
7652: begin
7653:   Procedure QSort( X : TVector; Lb, Ub : Integer)
7654:   Procedure DQSort( X : TVector; Lb, Ub : Integer)
7655: end;
7656:
7657: procedure SIRegister_uinterv(CL: TPSPascalCompiler);
7658: begin
7659:   Procedure Interval( X1, X2 : Float; MinDiv, MaxDiv : Integer; var Min, Max, Step : Float)
7660:   Procedure AutoScale(X: TVector; Lb, Ub : Integer; Scale : TScale; var XMin, XMax, XStep:Float)
7661: end;
7662:
7663: procedure SIRegister_D2XXUnit(CL: TPSPascalCompiler);
7664: begin
7665:   FT_Result', 'Integer
7666:   //TDWordptr', '^Dword // will not work
7667:   TFT_Program_Data', 'record Signature1 : DWord; Signature2 : DWor'
7668:   d; Version : DWord; VendorID : Word; ProductID : Word; Manufacturer : PCha'
7669:   r; ManufacturerID : PChar; Description : PChar; SerialNumber : PChar; MaxP'
7670:   ower : Word; PnP : Word; SelfPowered : Word; RemoteWakeUp : Word; Rev4 : B'
7671:   yte; IsoIn : Byte; IsoOut : Byte; PullDownEnable : Byte; SerNumEnable : By'
7672:   te; USBVersionEnable : Byte; USBVersion : Word; Rev5 : Byte; IsoInA : Byte'
7673:   ; IsoInB : Byte; IsoOutA : Byte; IsoOutB : Byte; PullDownEnable5 : Byte; S'
7674:   erNumEnable5 : Byte; USBVersionEnable5 : Byte; USBVersion5 : Word; AIsHigh'
7675:   Current : Byte; BIsHighCurrent : Byte; IFAIsFifo : Byte; IFAIsFifoTar : By'
7676:   te; IFAIsFastSer : Byte; AIsVCP : Byte; IFBIsFifo : Byte; IFBIsFifoTar : B'
7677:   yte; IFBIsFastSer : Byte; BIsVCP : Byte; UseExtOsc : Byte; HighDriveIOs : '

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7678:     Byte; EndpointSize : Byte; PullDownEnableR : Byte; SerNumEnableR : Byte; InvertTXD : Byte; InvertRXD : Byte; InvertRTS : Byte; InvertCTS : Byte; InvertDR : Byte; InvertDSR : Byte; InvertDCD : Byte; InvertRI : Byte; Cbus0 : Byte; Cbus1 : Byte; Cbus2 : Byte; Cbus3 : Byte; Cbus4 : Byte; RIIsVCP : Byte;
7682:     yte; end
7683: end;
7684:
7685:
7686: //***** PaintFX *****
7687: procedure SIRegister_TJvPaintFX(CL: TPSPascalCompiler);
7688: begin
7689:   //with RegClassS(CL,'TComponent', 'TJvPaintFX') do
7690:   with AddClassN(FindClass('TComponent'), 'TJvPaintFX') do begin
7691:     Procedure Solarize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7692:     Procedure Posterize( const Src : TBitmap; var Dst : TBitmap; Amount : Integer)
7693:     Procedure Blend( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7694:     Procedure Blend2( const Src1, Src2 : TBitmap; var Dst : TBitmap; Amount : Single)
7695:     Procedure ExtractColor( const Dst : TBitmap; AColor : TColor)
7696:     Procedure ExcludeColor( const Dst : TBitmap; AColor : TColor)
7697:     Procedure Turn( Src, Dst : TBitmap)
7698:     Procedure TurnRight( Src, Dst : TBitmap)
7699:     Procedure HeightMap( const Dst : TBitmap; Amount : Integer)
7700:     Procedure TexturizeFile( const Dst : TBitmap; Amount : Integer)
7701:     Procedure TexturizeOverlap( const Dst : TBitmap; Amount : Integer)
7702:     Procedure RippleRandom( const Dst : TBitmap; Amount : Integer)
7703:     Procedure RippleTooth( const Dst : TBitmap; Amount : Integer)
7704:     Procedure RippleTriangle( const Dst : TBitmap; Amount : Integer)
7705:     Procedure Triangles( const Dst : TBitmap; Amount : Integer)
7706:     Procedure DrawMandelJulia(const Dst : TBitmap; x0,y0,x1,y1:Single; Niter:Integer; Mandel:Boolean)
7707:     Procedure FilterXBlue( const Dst : TBitmap; Min, Max : Integer)
7708:     Procedure FilterXGreen( const Dst : TBitmap; Min, Max : Integer)
7709:     Procedure FilterXRed( const Dst : TBitmap; Min, Max : Integer)
7710:     Procedure FilterBlue( const Dst : TBitmap; Min, Max : Integer)
7711:     Procedure FilterGreen( const Dst : TBitmap; Min, Max : Integer)
7712:     Procedure FilterRed( const Dst : TBitmap; Min, Max : Integer)
7713:     Procedure Emboss( var Bmp : TBitmap)
7714:     Procedure Plasma( Src1, Src2, Dst : TBitmap; Scale, Turbulence : Single)
7715:     Procedure Shake( Src, Dst : TBitmap; Factor : Single)
7716:     Procedure ShakeDown( Src, Dst : TBitmap; Factor : Single)
7717:     Procedure KeepBlue( const Dst : TBitmap; Factor : Single)
7718:     Procedure KeepGreen( const Dst : TBitmap; Factor : Single)
7719:     Procedure KeepRed( const Dst : TBitmap; Factor : Single)
7720:     Procedure Mandelbrot( const Dst : TBitmap; Factor : Integer)
7721:     Procedure MaskMandelbrot( const Dst : TBitmap; Factor : Integer)
7722:     Procedure FoldRight( Src1, Src2, Dst : TBitmap; Amount : Single)
7723:     Procedure QuartoOpaque( Src, Dst : TBitmap)
7724:     Procedure SemiOpaque( Src, Dst : TBitmap)
7725:     Procedure ShadowDownLeft( const Dst : TBitmap)
7726:     Procedure ShadowDownRight( const Dst : TBitmap)
7727:     Procedure ShadowUpLeft( const Dst : TBitmap)
7728:     Procedure ShadowUpRight( const Dst : TBitmap)
7729:     Procedure Darkness( const Dst : TBitmap; Amount : Integer)
7730:     Procedure Trace( const Dst : TBitmap; Intensity : Integer)
7731:     Procedure FlipRight( const Dst : TBitmap)
7732:     Procedure FlipDown( const Dst : TBitmap)
7733:     Procedure Spotlight( const Dst : TBitmap; Amount : Integer; Spot : TRect)
7734:     Procedure SplitLight( const Dst : TBitmap; Amount : Integer)
7735:     Procedure MakeSeamlessClip( var Dst : TBitmap; Seam : Integer)
7736:     Procedure Wave( const Dst : TBitmap; Amount, Inference, Style : Integer)
7737:     Procedure Mosaic( const Bm : TBitmap; Size : Integer)
7738:     Procedure SmoothRotate( var Src, Dst : TBitmap; CX, CY : Integer; Angle : Single)
7739:     Procedure SmoothResize( var Src, Dst : TBitmap)
7740:     Procedure Twist( var Bmp, Dst : TBitmap; Amount : Integer)
7741:     Procedure SplitBlur( const Dst : TBitmap; Amount : Integer)
7742:     Procedure GaussianBlur( const Dst : TBitmap; Amount : Integer)
7743:     Procedure Smooth( const Dst : TBitmap; Weight : Integer)
7744:     Procedure GrayScale( const Dst : TBitmap)
7745:     Procedure AddColorNoise( const Dst : TBitmap; Amount : Integer)
7746:     Procedure AddMonoNoise( const Dst : TBitmap; Amount : Integer)
7747:     Procedure Contrast( const Dst : TBitmap; Amount : Integer)
7748:     Procedure Lightness( const Dst : TBitmap; Amount : Integer)
7749:     Procedure Saturation( const Dst : TBitmap; Amount : Integer)
7750:     Procedure Spray( const Dst : TBitmap; Amount : Integer)
7751:     Procedure AntiAlias( const Dst : TBitmap)
7752:     Procedure AntiAliasRect( const Dst : TBitmap; XOrigin, YOrigin, XFinal, YFinal : Integer)
7753:     Procedure SmoothPoint( const Dst : TBitmap; XK, YK : Integer)
7754:     Procedure FishEye( var Bmp, Dst : TBitmap; Amount : Single)
7755:     Procedure Marble( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence : Integer)
7756:     Procedure Marble2( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7757:     Procedure Marble3( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7758:     Procedure Marble4( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7759:     Procedure Marble5( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7760:     Procedure Marble6( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7761:     Procedure Marble7( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7762:     Procedure Marble8( const Src : TBitmap; var Dst : TBitmap; Scale : Single; Turbulence: Integer)
7763:     Procedure SqueezeHor( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7764:     Procedure SplitRound( Src, Dst : TBitmap; Amount : Integer; Style : TLightBrush)
7765:     Procedure Tile( Src, Dst : TBitmap; Amount : Integer)
7766:     Procedure Stretch( Src, Dst : TBitmap; Filter : TFilterProc; AWidth : Single)

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

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

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7940: Function PointInLine3( const P : TPoint; const px, py, qx, qy, TolerancePixels:Integer):Boolean;
7941: Function PointInLineTolerance(const P:TPoint;const px,py,qx,qy,TolerancePixels:Integer):Boolean;
7942: Function PointInPolygon( const P : TPoint; const Poly : array of TPoint ) : Boolean;
7943: Function PointInTriangle( const P, P0, P1, P2 : TPoint) : Boolean;
7944: Function PointInTriangle1( const P : TPoint; X0, X1, Y0, Y1 : Integer) : Boolean;
7945: Function PointInHorizTriangle( const P : TPoint; Y0, Y1, X0, X1 : Integer) : Boolean;
7946: Function PointInEllipse( const P : TPoint; const Rect : TRect ) : Boolean;
7947: Function PointInEllipsel( const P: TPoint;Left,Top,Right, Bottom : Integer) : Boolean;
7948: Function DelphiToLocalFormat( const Format : String ) : String;
7949: Function LocalToDelphiFormat( const Format : String ) : String;
7950: Procedure TEEEnableControls(Enable: Boolean; const ControlArray : array of TControl);
7951: Function TeeRoundDate(const ADate : TDateTime; AStep : TDateTimeStep) : TDateTime;
7952: Procedure TeeDateTimeIncrement(IsDateTime:Boolean;Increment:Boolean;var Value:Double;const AnIncrement:Double; tmpWhichDateTime:TDateTimeStep)
7953:   TTeeSortCompare', 'Function ( a, b : Integer ) : Integer;
7954:   TTeeSortSwap', 'Procedure ( a, b : Integer );
7955: Procedure TeeSort(StartIndex,EndIndex:Integer;CompareFunc:TTeeSortCompare;SwapFunc:TTeeSortSwap);
7956: Function TeeGetUniqueName( AOwner : TComponent; const AStartName : String ) : string;
7957: Function TeeExtractField( St : String; Index : Integer ) : String;
7958: Function TeeExtractField1( St : String; Index : Integer; const Separator : String ) : String;
7959: Function TeeNumFields( St : String ) : Integer;
7960: Function TeeNumFields1( const St, Separator : String ) : Integer;
7961: Procedure TeeGetBitmapEditor( AObject : TObject; var Bitmap : TBitmap );
7962: Procedure TeeLoadBitmap( Bitmap : TBitmap; const Name1, Name2 : String );
7963: // TColorArray', 'array of TColor
7964: Function GetDefaultColor( const Index : Integer ) : TColor;
7965: Procedure SetDefaultColorPalette;
7966: Procedure SetDefaultColorPalette1( const Palette : array of TColor );
7967: 'TeeCheckBoxSize','LongInt'( 11 );
7968: Procedure TeeDrawCheckBox(x,y:Integer;Canvas:TCanvas;Checked:Boolean;ABackColor:TColor;CheckBox:Boolean);
7969: Function TEEStrToFloatDef( const S : string; const Default : Extended ) : Extended;
7970: Function TryStrToFloat( const S : String; var Value : Double ) : Boolean;
7971: Function Crossinglines( const X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Double; out x, y : Double ) : Boolean;
7972: Procedure TeeTranslateControl( AControl : TControl );
7973: Procedure TeeTranslateControll( AControl : TControl; const ExcludeChilds : array of TControl );
7974: Function ReplaceChar( const AString : String; const Search : Char; const Replace : Char ) : String;
7975: //Procedure RectToFourPoints( const ARect : TRect; const Angle : Double; var P : TFourPoints );
7976: Function TeeAntiAlias( Panel : TCustomTeePanel; ChartRect : Boolean ) : TBitmap;
7977: //Procedure DrawBevel(Canvas:TTeeCanvas;Bevel:TPanelBevel;var R:TRect;Width:Integer;Round:Integer);
7978: //Function ScreenRatio( ACanvas : TCanvas3D ) : Double;
7979: Function TeeReadBoolOption( const AKey : String; DefaultValue : Boolean ) : Boolean;
7980: Procedure TeeSaveBoolOption( const AKey : String; Value : Boolean );
7981: Function TeeReadIntegerOption( const AKey : String; DefaultValue : Integer ) : Integer;
7982: Procedure TeeSaveIntegerOption( const AKey : String; Value : Integer );
7983: Function TeeReadStringOption( const AKey, DefaultValue : String ) : String;
7984: Procedure TeeSaveStringOption( const AKey, Value : String );
7985: Function TeeDefaultXMLEncoding : String;
7986: Procedure ConvertTextToXML( Stream : TStream; XMLHeader : Boolean );
7987: TeeWindowHandle', 'Integer;
7988: Procedure TeeGoToURL( Handle : TeeWindowHandle; const URL : String );
7989: Procedure HtmlTextOut( ACanvas : TCanvas; x, y : Integer; Text : String );
7990: Function HtmlTextExtent( ACanvas : TCanvas; const Text : String ) : TSize;
7991: end;
7992:
7993:
7994: using mXBDEUtils
7995: ****
7996: Procedure SetAlias( aAlias, aDirectory : String );
7997: Procedure CheckRegistry(Reg:TRegistry;const Path,Value:String;const Default,
Desired:Variant;Size:Byte);
7998: Function GetFileVersionNumber( const FileName : String ) : TVersionNo;
7999: Procedure SetBDE( aPath, aNode, aValue : String );
8000: function RestartDialog(Wnd: HWnd; Reason: PChar; Flags: Integer): Integer; stdcall;
8001: Function GetSystemDirectory( lpBuffer : string; uSize : UINT ) : UINT;
8002: Function GetSystemDirectoryW( lpBuffer : pchar; uSize : UINT ) : UINT;
8003: Function GetTempPath( nBufferLength : DWORD; lpBuffer : string ) : DWORD;
8004: Function GetWindowsDirectoryW( nBufferLength : DWORD; lpBuffer : string ) : DWORD;
8005: Function GetTempFileName(lpPathName,lpPrefixString:string;uUnique:UINT;lpTempFileName:string):UINT;
8006:
8007:
8008: procedure SIRegister_cDateTime(CL: TPPascalCompiler);
8009: begin
8010: AddClassN(FindClass('TOBJECT'), 'EDateTime';
8011: Function DatePart( const D : TDateTime ) : Integer;
8012: Function TimePart( const D : TDateTime ) : Double;
8013: Function Century( const D : TDateTime ) : Word;
8014: Function Year( const D : TDateTime ) : Word;
8015: Function Month( const D : TDateTime ) : Word;
8016: Function Day( const D : TDateTime ) : Word;
8017: Function Hour( const D : TDateTime ) : Word;
8018: Function Minute( const D : TDateTime ) : Word;
8019: Function Second( const D : TDateTime ) : Word;
8020: Function Millisecond( const D : TDateTime ) : Word;
8021: ('OneDay','Extended').SetExtended( 1.0 );
8022: ('OneHour','Extended').SetExtended( OneDay / 24 );
8023: ('OneMinute','Extended').SetExtended( OneHour / 60 );
8024: ('OneSecond','Extended').SetExtended( OneMinute / 60 );
8025: ('OneMillisecond','Extended').SetExtended( OneSecond / 1000 );
8026: ('OneWeek','Extended').SetExtended( OneDay * 7 );

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8027: ('HoursPerDay', 'Extended').SetExtended( 24);
8028: ('MinutesPerHour', 'Extended').SetExtended( 60);
8029: ('SecondsPerMinute', 'Extended').SetExtended( 60);
8030: Procedure SetYear( var D : TDateTime; const Year : Word)
8031: Procedure SetMonth( var D : TDateTime; const Month : Word)
8032: Procedure SetDay( var D : TDateTime; const Day : Word)
8033: Procedure SetHour( var D : TDateTime; const Hour : Word)
8034: Procedure SetMinute( var D : TDateTime; const Minute : Word)
8035: Procedure SetSecond( var D : TDateTime; const Second : Word)
8036: Procedure SetMillisecond( var D : TDateTime; const Milliseconds : Word)
8037: Function IsEqual( const D1, D2 : TDateTime) : Boolean;
8038: Function IsEqual( const D1 : TDateTime; const Ye, Mo, Da : Word):Boolean;
8039: Function IsEqual( const D1 : TDateTime; const Ho, Mi, Se, ms : Word):Boolean;
8040: Function IsAM( const D : TDateTime) : Boolean
8041: Function IsPM( const D : TDateTime) : Boolean
8042: Function IsMidnight( const D : TDateTime) : Boolean
8043: Function IsNoon( const D : TDateTime) : Boolean
8044: Function IsSunday( const D : TDateTime) : Boolean
8045: Function IsMonday( const D : TDateTime) : Boolean
8046: Function IsTuesday( const D : TDateTime) : Boolean
8047: Function IsWednesday( const D : TDateTime) : Boolean
8048: Function IsThursday( const D : TDateTime) : Boolean
8049: Function IsFriday( const D : TDateTime) : Boolean
8050: Function IsSaturday( const D : TDateTime) : Boolean
8051: Function IsWeekend( const D : TDateTime) : Boolean
8052: Function Noon( const D : TDateTime) : TDateTime
8053: Function Midnight( const D : TDateTime) : TDateTime
8054: Function FirstDayOfMonth( const D : TDateTime) : TDateTime
8055: Function LastDayOfMonth( const D : TDateTime) : TDateTime
8056: Function NextWorkday( const D : TDateTime) : TDateTime
8057: Function PreviousWorkday( const D : TDateTime) : TDateTime
8058: Function FirstDayOfYear( const D : TDateTime) : TDateTime
8059: Function LastDayOfYear( const D : TDateTime) : TDateTime
8060: Function EasterSunday( const Year : Word) : TDateTime
8061: Function GoodFriday( const Year : Word) : TDateTime
8062: Function AddMilliseconds( const D : TDateTime; const N : Int64) : TDateTime
8063: Function AddSeconds( const D : TDateTime; const N : Int64) : TDateTime
8064: Function AddMinutes( const D : TDateTime; const N : Integer) : TDateTime
8065: Function AddHours( const D : TDateTime; const N : Integer) : TDateTime
8066: Function AddDays( const D : TDateTime; const N : Integer) : TDateTime
8067: Function AddWeeks( const D : TDateTime; const N : Integer) : TDateTime
8068: Function AddMonths( const D : TDateTime; const N : Integer) : TDateTime
8069: Function AddYears( const D : TDateTime; const N : Integer) : TDateTime
8070: Function DayOfYear( const Ye, Mo, Da : Word) : Integer
8071: Function DayOfYear( const D : TDateTime) : Integer
8072: Function DaysInMonth( const Ye, Mo : Word) : Integer
8073: Function DaysInMonth( const D : TDateTime) : Integer
8074: Function DaysInYear( const Ye : Word) : Integer
8075: Function DaysInYearDate( const D : TDateTime) : Integer
8076: Function WeekNumber( const D : TDateTime) : Integer
8077: Function ISOFirstWeekOfYear( const Ye : Word) : TDateTime
8078: Procedure ISOWeekNumber( const D : TDateTime; var WeekNumber, WeekYear : Word)
8079: Function DiffMilliseconds( const D1, D2 : TDateTime) : Int64
8080: Function DiffSeconds( const D1, D2 : TDateTime) : Integer
8081: Function DiffMinutes( const D1, D2 : TDateTime) : Integer
8082: Function DiffHours( const D1, D2 : TDateTime) : Integer
8083: Function DiffDays( const D1, D2 : TDateTime) : Integer
8084: Function DiffWeeks( const D1, D2 : TDateTime) : Integer
8085: Function DiffMonths( const D1, D2 : TDateTime) : Integer
8086: Function DiffYears( const D1, D2 : TDateTime) : Integer
8087: Function GMTBias : Integer
8088: Function GMTTimeToLocalTime( const D : TDateTime) : TDateTime
8089: Function LocalTimeToGMTTime( const D : TDateTime) : TDateTime
8090: Function NowAsGMTTime : TDateTime
8091: Function DateTimeToISO8601String( const D : TDateTime) : AnsiString
8092: Function ISO8601StringToTime( const D : AnsiString) : TDateTime
8093: Function ISO8601StringAsDateTime( const D : AnsiString) : TDateTime
8094: Function DateTimeToANSI( const D : TDateTime) : Integer
8095: Function ANSIToDateTime( const Julian : Integer) : TDateTime
8096: Function DateTimeToISOInteger( const D : TDateTime) : Integer
8097: Function DateTimeToISOString( const D : TDateTime) : AnsiString
8098: Function ISOInteger.ToDateTime( const ISOInteger : Integer) : TDateTime
8099: Function TwoDigitRadix2000YearToYear( const Y : Integer) : Integer
8100: Function DateTimeAsElapsedTime(const D:TDateTime; const IncludeMilliseconds:Boolean):AnsiString
8101: Function UnixTimeToDateTime( const UnixTime : LongWord) : TDateTime
8102: Function DateTimeToUnixTime( const D : TDateTime) : LongWord
8103: Function EnglishShortDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8104: Function EnglishShortDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8105: Function EnglishLongDayOfWeekStrA( const DayOfWeek : Integer) : AnsiString
8106: Function EnglishLongDayOfWeekStrU( const DayOfWeek : Integer) : UnicodeString
8107: Function EnglishShortMonthStrA( const Month : Integer) : AnsiString
8108: Function EnglishShortMonthStrU( const Month : Integer) : UnicodeString
8109: Function EnglishLongMonthStrA( const Month : Integer) : AnsiString
8110: Function EnglishLongMonthStrU( const Month : Integer) : UnicodeString
8111: Function EnglishShortDayOfWeekA( const S : AnsiString) : Integer
8112: Function EnglishShortDayOfWeekU( const S : UnicodeString) : Integer
8113: Function EnglishLongDayOfWeekA( const S : AnsiString) : Integer
8114: Function EnglishLongDayOfWeekU( const S : UnicodeString) : Integer
8115: Function EnglishShortMonthA( const S : AnsiString) : Integer

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8116: Function EnglishShortMonthU( const S : UnicodeString ) : Integer
8117: Function EnglishLongMonthA( const S : AnsiString ) : Integer
8118: Function EnglishLongMonthU( const S : UnicodeString ) : Integer
8119: Function RFC850DayOfWeekA( const S : AnsiString ) : Integer
8120: Function RFC850DayOfWeekU( const S : UnicodeString ) : Integer
8121: Function RFC1123DayOfWeekA( const S : AnsiString ) : Integer
8122: Function RFC1123DayOfWeekU( const S : UnicodeString ) : Integer
8123: Function RFCMonthA( const S : AnsiString ) : Word
8124: Function RFCMonthU( const S : UnicodeString ) : Word
8125: Function GMTTimeToRFC1123TimeA( const D : TDateTime; const IncludeSeconds:Boolean ) : AnsiString
8126: Function GMTTimeToRFC1123TimeU( const D : TDateTime; const IncludeSeconds:Boolean ) : UnicodeString
8127: Function GMTDateTimeToRFC1123DateTimeA( const D : TDateTime; const IncludeDayOfWeek:Bool ):AnsiString;
8128: Function GMTDateTimeToRFC1123DateTimeU( const D : TDateTime; const IncludeDayOfWeek:Bool ):UnicodeString;
8129: Function DateTimeToRFCDateTimeA( const D : TDateTime ) : AnsiString
8130: Function DateTimeToRFCDateTimeU( const D : TDateTime ) : UnicodeString
8131: Function NowAsRFCDateTimeA : AnsiString
8132: Function NowAsRFCDateTimeU : UnicodeString
8133: Function RFCDateTimeToGMTDateTime( const S : AnsiString ) : TDateTime
8134: Function RFCDateTimeToDateTIme( const S : AnsiString ) : TDateTime
8135: Function RFCTimeZoneToGMTBias( const Zone : AnsiString ) : Integer
8136: Function TimePeriodStr( const D : TDateTime ) : AnsiString
8137: Procedure SelfTest
8138: end;
8139: //*****CFileUtils
8140: Function PathHasDriveLetterA( const Path : AnsiString ) : Boolean
8141: Function PathHasDriveLetter( const Path : String ) : Boolean
8142: Function PathIsDriveLetterA( const Path : AnsiString ) : Boolean
8143: Function PathIsDriveLetter( const Path : String ) : Boolean
8144: Function PathIsDriveRootA( const Path : AnsiString ) : Boolean
8145: Function PathIsDriveRoot( const Path : String ) : Boolean
8146: Function PathIsRootA( const Path : AnsiString ) : Boolean
8147: Function PathIsRoot( const Path : String ) : Boolean
8148: Function PathIsUNCPathA( const Path : AnsiString ) : Boolean
8149: Function PathIsUNCPath( const Path : String ) : Boolean
8150: Function PathIsAbsoluteA( const Path : AnsiString ) : Boolean
8151: Function PathIsAbsolute( const Path : String ) : Boolean
8152: Function PathIsDirectoryA( const Path : AnsiString ) : Boolean
8153: Function PathIsDirectory( const Path : String ) : Boolean
8154: Function PathInclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8155: Function PathInclSuffix( const Path : String; const PathSep : Char ) : String
8156: Function PathExclSuffixA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8157: Function PathExclSuffix( const Path : String; const PathSep : Char ) : String
8158: Procedure PathEnsureSuffixA( var Path : AnsiString; const PathSep : Char )
8159: Procedure PathEnsureSuffix( var Path : String; const PathSep : Char )
8160: Procedure PathEnsureNoSuffixA( var Path : AnsiString; const PathSep : Char )
8161: Procedure PathEnsureNoSuffix( var Path : String; const PathSep : Char )
8162: //Function PathCanonical( const Path : AnsiString; const PathSep : Char ) : AnsiString
8163: Function PathCanonical( const Path : String; const PathSep : Char ) : String
8164: Function PathExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char):AnsiString
8165: Function PathExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8166: Function PathLeftElementA( const Path : AnsiString; const PathSep : Char ) : AnsiString
8167: Function PathLeftElement( const Path : String; const PathSep : Char ) : String
8168: Procedure PathSplitLeftElementA( const Path:AStrinG;var LeftElement,RightPath:AStrinG;const PathSep:Char );
8169: Procedure PathSplitLeftElement( const Path:String; var LeftElement,RightPath: String;const PathSep:Char );
8170: Procedure DecodeFilePathA( const FilePath:AnsiString; var Path,FileName:AnsiString;const PathSep:Char );
8171: Procedure DecodeFilePath( const FilePath : String; var Path, FileName : String; const PathSep : Char )
8172: Function FileNameValidA( const FileName : AnsiString ) : AnsiString
8173: Function FileNameValid( const FileName : String ) : String
8174: Function FilePathA( const FileName,Path:AnsiString;const basePath:AnsiStr;const PathSep:Char):AnsiString;
8175: Function FilePath( const FileName, Path : String;const basePath : String;const PathSep : Char ) : String
8176: Function DirectoryExpandA( const Path:AnsiString;const basePath:AnsiString;const PathSep:Char ):AnsiString
8177: Function DirectoryExpand( const Path : String; const basePath : String; const PathSep : Char ) : String
8178: Function UnixPathToWinPath( const Path : AnsiString ) : AnsiString
8179: Function WinPathToUnixPath( const Path : AnsiString ) : AnsiString
8180: Procedure CCopyFile( const FileName, DestName : String )
8181: Procedure CMoveFile( const FileName, DestName : String )
8182: Function CDeleteFiles( const FileMode : String ) : Boolean
8183: Function FileSeekEx( const FHandle:TFileHandle;const FileOffset:Int64; const FilePos:TFileSeekPos):Int64;
8184: Procedure FileCloseEx( const FileHandle : TFileHandle )
8185: Function FileExistsA( const FileName : AnsiString ) : Boolean
8186: Function CFileExists( const FileName : String ) : Boolean
8187: Function CFileGetSize( const FileName : String ) : Int64
8188: Function FileGetDateTime( const FileName : String ) : TDateTime
8189: Function FileGetDateTime2( const FileName : String ) : TDateTime
8190: Function FileIsReadOnly( const FileName : String ) : Boolean
8191: Procedure FileDeleteEx( const FileName : String )
8192: Procedure FileRenameEx( const OldFileName, NewFileName : String )
8193: Function ReadFileStrA( const FileName:AnsiString; const FileSharing : TFileSharing; const FileCreationMode : TFileCreationMode; const FileOpenWait : PFileOpenWait ) : AnsiString
8194: Function DirectoryEntryExists( const Name : String ) : Boolean
8195: Function DirectoryEntrySize( const Name : String ) : Int64
8196: Function CDirectoryExists( const DirectoryName : String ) : Boolean
8197: Function DirectoryGetDateTime( const DirectoryName : String ) : TDateTime
8198: Procedure CDirectoryCreate( const DirectoryName : String )
8199: Function GetFirstFileNameMatching( const FileMode : String ) : String
8200: Function DirEntryGetAttr( const FileName : AnsiString ) : Integer
8201: Function DirEntryIsDirectory( const FileName : AnsiString ) : Boolean
8202: Function FileHasAttr( const FileName : String; const Attr : Word ) : Boolean
8203: AddTypeS('TLogicalDriveType', '( DriveRemovable, DriveFixed, DriveRemote, '

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8204:   +'DriveCDRom, DriveRamDisk, DriveTypeUnknown )
8205: Function DriveIsValid( const Drive : Char ) : Boolean
8206: Function DriveGetType( const Path : AnsiString ) : TLogicalDriveType
8207: Function DriveFreeSpace( const Path : AnsiString ) : Int64
8208:
8209: procedure SIRegister_cTimers(CL: TPSPascalCompiler);
8210: begin
8211:   AddClassN(FindClass('TOBJECT'), 'ETimers
8212:   Const ('TickFrequency', 'LongInt'( 1000 );Function GetTick : LongWord
8213: Function TickDelta( const D1, D2 : LongWord ) : Integer
8214: Function TickDeltaW( const D1, D2 : LongWord ) : LongWord
8215:   AddTypes('THPTimer', 'Int64
8216: Procedure StartTimer( var Timer : THPTimer )
8217: Procedure StopTimer( var Timer : THPTimer )
8218: Procedure ResumeTimer( var StoppedTimer : THPTimer )
8219: Procedure InitStoppedTimer( var Timer : THPTimer )
8220: Procedure InitElapsedTimer( var Timer : THPTimer; const Milliseconds : Integer )
8221: Function MillisecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Integer
8222: Function MicrosecondsElapsed( const Timer: THPTimer; const TimerRunning : Boolean ) : Int64
8223: Procedure WaitMicroseconds( const MicroSeconds : Integer )
8224: Function GetHighPrecisionFrequency : Int64
8225: Function GetHighPrecisionTimerOverhead : Int64
8226: Procedure AdjustTimerForOverhead( var StoppedTimer : THPTimer; const Overhead : Int64 )
8227: Procedure SelfTestCTimer
8228: end;
8229:
8230: procedure SIRegister_cRandom(CL: TPSPascalCompiler);
8231: begin
8232:   Function RandomSeed : LongWord
8233:   Procedure AddEntropy( const Value : LongWord )
8234:   Function RandomUniform : LongWord;
8235:   Function RandomUniforml( const N : Integer ) : Integer;
8236:   Function RandomBoolean : Boolean
8237:   Function RandomByte : Byte
8238:   Function RandomByteNonZero : Byte
8239:   Function RandomWord : Word
8240:   Function RandomInt64 : Int64;
8241:   Function RandomInt64l( const N : Int64 ) : Int64;
8242:   Function RandomHex( const Digits : Integer ) : String
8243:   Function RandomFloat : Extended
8244:   Function RandomAlphaStr( const Length : Integer ) : AnsiString
8245:   Function RandomPseudoWord( const Length : Integer ) : AnsiString
8246:   Function RandomPassword(const MinL,MaxLength:Int;const CaseSens,UseSymbols,UseNumbers:Bool):AnsiString;
8247:   Function mwcRandomLongWord : LongWord
8248:   Function urnRandomLongWord : LongWord
8249:   Function moaRandomFloat : Extended
8250:   Function mwcRandomFloat : Extended
8251:   Function RandomNormalF : Extended
8252:   Procedure SelfTestCRandom
8253: end;
8254:
8255: procedure SIRegister_SynEditMiscProcs(CL: TPSPascalCompiler);
8256: begin
8257: // PIntArray', '^TIntArray // will not work
8258: Addtypes('TConvertTabsProc','function(const Line:AnsiString; TabWidth: integer):AnsiString
8259: TConvertTabsProcEx,function(const Line:AnsiString;TabWidth:integer;var HasTabs:boolean):AnsiString
8260: Function synMax( x, y : integer ) : integer
8261: Function synMin( x, y : integer ) : integer
8262: Function synMinMax( x, mi, ma : integer ) : integer
8263: Procedure synSwapInt( var l, r : integer )
8264: Function synMaxPoint( const P1, P2 : TPoint ) : TPoint
8265: Function synMinPoint( const P1, P2 : TPoint ) : TPoint
8266: //Function synGetIntArray( Count : Cardinal; initialValue : integer ) : PIntArray
8267: Procedure synInternalFillRect( dc : HDC; const rcPaint : TRect )
8268: Function synGetBestConvertTabsProc( TabWidth : integer ) : TConvertTabsProc
8269: Function synConvertTabs( const Line : AnsiString; TabWidth : integer ) : AnsiString
8270: Function synGetBestConvertTabsProcEx( TabWidth : integer ) : TConvertTabsProcEx
8271: Function synConvertTabsEx(const Line:AnsiString;TabWidth:integer; var HasTabs:boolean):AnsiString;
8272: Function synGetExpandedLength( const aStr : string; aTabWidth : integer ) : integer
8273: Function synCharIndex2Caretpos( Index, TabWidth : integer; const Line : string ) : integer
8274: Function synCaretpos2CharIndex(Position,TabWidth:int;const Line:string;var InsideTabChar:boolean):int;
8275: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8276: Function synStrScanForCharInSet(const Line:string;Start:integer;AChars:TSynIdentChars):integer;
8277: TStringType, '( stNone, stHalfNumAlpha, stWideSymbol, stWideKatakana, stHiragana, stIdeograph, stControl, stKashida )
8278:   + 'akana,stWideNumAlpha,stWideSymbol,stWideKatakana,stHiragana,stIdeograph,stControl,stKashida )
8279: ('C3_NONSPACING','LongInt'( 1 );
8280: 'C3_DIACRITIC','LongInt'( 2 );
8281: 'C3_VOWELMARK','LongInt'( 4 );
8282: ('C3_SYMBOL','LongInt'( 8 );
8283: ('C3_KATAKANA','LongWord( $0010 );
8284: ('C3_HIRAGANA','LongWord( $0020 );
8285: ('C3_HALFWIDTH','LongWord( $0040 );
8286: ('C3_FULLWIDTH','LongWord( $0080 );
8287: ('C3_IDEOGRAPH','LongWord( $0100 );
8288: ('C3_KASHIDA','LongWord( $0200 );
8289: ('C3_LEXICAL','LongWord( $0400 );
8290: ('C3_ALPHA','LongWord( $8000 );
8291: ('C3_NOTAPPLICABLE','LongInt'( 0 );
8292: Function synStrScanForMultiByteChar( const Line : string; Start : Integer ) : Integer

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

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8380: Function CXorString( Indata1, Indata2 : AnsiString ) : AnsiString
8381: Function NormalizeHeader( Value : TStrings; var Index : Integer ) : string
8382: end;
8383;
8384: procedure SIRegister_StCRC(CL: TPSPascalCompiler);
8385: begin
8386:   ('CrcBufSize', 'LongInt'( 2048 );
8387:   Function Adler32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8388:   Function Adler32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8389:   Function Adler32OfFile( FileName : AnsiString ) : LongInt
8390:   Function Crc16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8391:   Function Crc16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8392:   Function Crc16OfFile( FileName : AnsiString ) : Cardinal
8393:   Function Crc32Prim( var Data, DataSize : Cardinal; CurCrc : LongInt ) : LongInt
8394:   Function Crc32OfStream( Stream : TStream; CurCrc : LongInt ) : LongInt
8395:   Function Crc32OfFile( FileName : AnsiString ) : LongInt
8396:   Function InternetSumPrim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8397:   Function InternetSumOfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8398:   Function InternetSumOfFile( FileName : AnsiString ) : Cardinal
8399:   Function Kermit16Prim( var Data, DataSize, CurCrc : Cardinal ) : Cardinal
8400:   Function Kermit16OfStream( Stream : TStream; CurCrc : Cardinal ) : Cardinal
8401:   Function Kermit16OfFile( FileName : AnsiString ) : Cardinal
8402: end;
8403;
8404: procedure SIRegister_ComObj(CL: TPSPascalCompiler);
8405: begin
8406:   function CreateOleObject( const ClassName: String ): IDispatch;
8407:   function GetActiveOleObject( const ClassName: String ): IDispatch;
8408:   function ProgIDToClassID( const ProgID: string ): TGUID;
8409:   function ClassIDToProgID( const ClassID: TGUID ): string;
8410:   function CreateClassID: string;
8411:   function CreateGUIDString: string;
8412:   function CreateGUIDID: string;
8413:   procedure OleError( ErrorCode: longint );
8414:   procedure OleCheck( Result: HResult );
8415: end;
8416;
8417: Function xCreateOleObject( const ClassName : string ) : Variant //or IDispatch
8418: Function xGetActiveOleObject( const ClassName : string ) : Variant
8419: //Function DlIGetClassObject( const CLSID : TGUID; const IID : TIID; var Obj ) : HResult
8420: Function DllCanUnloadNow : HRESULT
8421: Function DllRegisterServer : HRESULT
8422: Function DllUnregisterServer : HRESULT
8423: Function VarFromInterface( Unknown : IUnknown ) : Variant
8424: Function VarToInterface( const V : Variant ) : IDispatch
8425: Function VarToAutoObject( const V : Variant ) : TAutoObject
8426: //Procedure
DispInvoke(Dispatch:IDispatch;CallDesc:PCallDesc;DispIDs:PDispIDList;Params:Pointer;Res:PVariant);
8427: //Procedure DispInvokeError( Status : HRESULT; const ExcepInfo : TExcepInfo )
8428: Procedure OleError( ErrorCode : HRESULT )
8429: Procedure OleCheck( Result : HRESULT )
8430: Function StringToClassID( const S : string ) : TGUID
8431: Function ClassIDToString( const ClassID : TGUID ) : string
8432: Function xProgIDToClassID( const ProgID : string ) : TGUID
8433: Function xClassIDToProgID( const ClassID : TGUID ) : string
8434: Function xWideCompareStr( const S1, S2 : WideString ) : Integer
8435: Function xWideSameStr( const S1, S2 : WideString ) : Boolean
8436: Function xGUIDToString( const ClassID : TGUID ) : string
8437: Function xStringToGUID( const S : string ) : TGUID
8438: Function xGetModuleName( Module : HMODULE ) : string
8439: Function xAcquireExceptionObject : TObject
8440: Function xIfThen( AValue : Boolean; const ATrue : Integer; const AFalse : Integer ) : Integer
8441: Function xUtf8Encode( const WS : WideString ) : UTF8String
8442: Function xUtf8Decode( const S : UTF8String ) : WideString
8443: Function xExcludeTrailingPathDelimiter( const S : string ) : string
8444: Function xIncludeTrailingPathDelimiter( const S : string ) : string
8445: Function XRTLHandleCOMException : HRESULT
8446: Procedure XRTLCheckArgument( Flag : Boolean )
8447: //Procedure XRTLCheckOutArgument( out Arg )
8448: Procedure XRTLInterfaceConnect( const Source:IUnknown;const IID:TIID;const Sink:IUnknown;var Connection:Longint );
8449: Procedure XRTLInterfaceDisconnect( const Source: IUnknown; const IID:TIID;var Connection : Longint )
8450: Function XRTLRegisterActiveObject( const Unk:IUnknown;ClassID:TGUID;Flags:DWORD;var RegisterCookie:Int ) : HRESULT
8451: Function XRTLUnRegisterActiveObject( var RegisterCookie : Integer ) : HRESULT
8452: //Function XRTLGetActiveObject( ClassID : TGUID; RIID : TIID; out Obj ) : HRESULT
8453: Procedure XRTLEnumActiveObjects( Strings : TStrings )
8454: function XRTLDefaultCategoryManager: IUnknown;
8455: function XRTLIsCategoryEmpty(CatID: TGUID; const CategoryManager: IUnknown = nil): Boolean;
8456: // ICatRegister helper functions
8457: function XRTLCREATEComponentCategory(CatID: TGUID; CatDescription: WideString;
8458:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8459:                                         const CategoryManager: IUnknown = nil): HRESULT;
8460: function XRTLRemoveComponentCategory(CatID: TGUID; CatDescription: WideString;
8461:                                         LocaleID: TGUID = LOCALE_USER_DEFAULT;
8462:                                         const CategoryManager: IUnknown = nil): HRESULT;
8463: function XRTLRegisterCLSIDInCategory(ClassID: TGUID; CatID: TGUID;
8464:                                         const CategoryManager: IUnknown = nil): HRESULT;
8465: function XRTLUnRegisterCLSIDInCategory(ClsID: TGUID; CatID: TGUID;

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8466:                                     const CategoryManager: IUnknown = nil): HResult;
8467: // ICatInformation helper functions
8468: function XRTLGetCategoryDescription(CatID: TGUID; var CatDescription: WideString;
8469:                                         LocaleID: TICLID = LOCALE_USER_DEFAULT;
8470:                                         const CategoryManager: IUnknown = nil): HResult;
8471: function XRTLGetCategoryList(Strings: TStrings; LocaleID: TICLID = LOCALE_USER_DEFAULT;
8472:                                         const CategoryManager: IUnknown = nil): HResult;
8473: function XRTLGetCategoryCLSIDList(CatID: TGUID; Strings: TStrings;
8474:                                         const CategoryManager: IUnknown = nil): HResult;
8475: function XRTLGetCategoryProgIDList(CatID: TGUID; Strings: TStrings;
8476:                                         const CategoryManager: IUnknown = nil): HResult;
8477: function XRTLFetch(var AInput: WideString; const ADelim: WideString = ' ');
8478:                                         const ADelete: Boolean = True): WideString;
8479: function XRTLPos(const ASub, AIn: WideString; AStart: Integer = -1): Integer;
8480: Function XRTLGetVariantAsString( const Value : Variant ) : string
8481: Function XRTLDeltaTimeToTimeZoneTime( DT : TDateTime; TimeZone : TXRTLTimeZone ) : TDateTime
8482: Function XRTLGetTimeZones : TXRTLTimeZones
8483: Function XFileTimeToDate( FileTime : TFileTime ) : TDateTime
8484: Function Date( Date : TDateTime ) : TDateTime
8485: Function GMTNow : TDateTime
8486: Function GMTToLocalTime( GMT : TDateTime ) : TDateTime
8487: Function LocalTimeToGMT( LocalTime : TDateTime ) : TDateTime
8488: Procedure XRTLNotImplemented
8489: Procedure XRTLRaiseError( E : Exception )
8490: Procedure XRTLRaise( E : Exception );
8491: Procedure XRaise( E : Exception );
8492: Procedure XRTLInvalidOperation( ClassName:string; OperationName:string; Description: string )
8493:
8494:
8495: procedure SIRegister_xrtl_util_Value(CL: TPSPascalCompiler);
8496: begin
8497:   SIRegister_IXRTLValue(CL);
8498:   SIRegister_TXRTLValue(CL);
8499:   //AddTypeS('PXRTLValueArray', '^TXRTLValueArray // will not work
8500:   AddTypeS('TXRTLValueArray', 'array of IXRTLValue
8501:   Function XRTLValue( const AValue : Cardinal ) : IXRTLValue;
8502:   Function XRTLSetsValue( const IValue : IXRTLValue; const AValue : Cardinal ) : Cardinal;
8503:   Function XRTLGetAsCardinal( const IValue : IXRTLValue ) : Cardinal;
8504:   Function XRTLGetAsCardinalDef( const IValue : IXRTLValue; const DefValue : Cardinal ) : Cardinal;
8505:   Function XRTLValue1( const AValue : Integer ) : IXRTLValue;
8506:   Function XRTLSetsValue1( const IValue : IXRTLValue; const AValue : Integer ) : Integer;
8507:   Function XRTLGetAsInteger( const IValue : IXRTLValue ) : Integer;
8508:   Function XRTLGetAsIntegerDef( const IValue : IXRTLValue; const DefValue : Integer ) : Integer;
8509:   Function XRTLValue2( const AValue : Int64 ) : IXRTLValue;
8510:   Function XRTLSetsValue2( const IValue : IXRTLValue; const AValue : Int64 ) : Int64;
8511:   Function XRTLGetAsInt64( const IValue : IXRTLValue ) : Int64;
8512:   Function XRTLGetAsInt64Def( const IValue : IXRTLValue; const DefValue : Int64 ) : Int64;
8513:   Function XRTLValue3( const AValue : Single ) : IXRTLValue;
8514:   Function XRTLSetsValue3( const IValue : IXRTLValue; const AValue : Single ) : Single;
8515:   Function XRTLGetAssingle( const IValue : IXRTLValue ) : Single;
8516:   Function XRTLGetAssingleDef( const IValue : IXRTLValue; const DefValue : Single ) : Single;
8517:   Function XRTLValue4( const AValue : Double ) : IXRTLValue;
8518:   Function XRTLSetsValue4( const IValue : IXRTLValue; const AValue : Double ) : Double;
8519:   Function XRTLGetAsDouble( const IValue : IXRTLValue ) : Double;
8520:   Function XRTLGetAsDoubleDef( const IValue : IXRTLValue; const DefValue : Double ) : Double;
8521:   Function XRTLValue5( const AValue : Extended ) : IXRTLValue;
8522:   Function XRTLSetsValue5( const IValue : IXRTLValue; const AValue : Extended ) : Extended;
8523:   Function XRTLGetAsExtended( const IValue : IXRTLValue ) : Extended;
8524:   Function XRTLGetAsExtendedDef( const IValue : IXRTLValue; const DefValue : Extended ) : Extended;
8525:   Function XRTLValue6( const AValue : IInterface ) : IXRTLValue;
8526:   Function XRTLSetsValue6( const IValue : IXRTLValue; const AValue : IInterface ) : IInterface;
8527:   Function XRTLGetAsInterface( const IValue : IXRTLValue ) : IInterface;
8528:   //Function XRTLGetAsInterface1( const IValue : IXRTLValue; out Obj ) : IInterface;
8529:   Function XRTLGetAsInterfaceDef( const IValue : IXRTLValue; const DefValue : IInterface ) : IInterface;
8530:   Function XRTLValue7( const AValue : WideString ) : IXRTLValue;
8531:   Function XRTLSetsValue7( const IValue : IXRTLValue; const AValue : WideString ) : WideString;
8532:   Function XRTLGetAsWideString( const IValue : IXRTLValue ) : WideString;
8533:   Function XRTLGetAsWideStringDef( const IValue : IXRTLValue; const DefValue : WideString ) : WideString;
8534:   Function XRTLValue8( const AValue : TObject; const AOwnValue : Boolean ) : IXRTLValue;
8535:   Function XRTLSetsValue8( const IValue : IXRTLValue; const AValue : TObject ) : TObject;
8536:   Function XRTLGetAsObject( const IValue : IXRTLValue; const ADetachOwnership : Boolean ) : TObject;
8537:   Function XRTLGetAsObjectDef( const IValue : IXRTLValue; const DefValue : TObject; const
     ADetachOwnership : Boolean ) : TObject;
8538: //Function XRTLValue9( const AValue : _Pointer ) : IXRTLValue;
8539: //Function XRTLSetsValue9( const IValue : IXRTLValue; const AValue : _Pointer ) : _Pointer;
8540: //Function XRTLGetAsPointer( const IValue : IXRTLValue ) : _Pointer;
8541: //Function XRTLGetAsPointerDef( const IValue : IXRTLValue; const DefValue : _Pointer ) : _Pointer;
8542: Function XRTLValueV( const AValue : Variant ) : IXRTLValue;
8543: Function XRTLSetsValueV( const IValue : IXRTLValue; const AValue : Variant ) : Variant;
8544: Function XRTLGetAsVariant( const IValue : IXRTLValue ) : Variant;
8545: Function XRTLGetAsVariantDef( const IValue : IXRTLValue; const DefValue : Variant ) : Variant;
8546: Function XRTLValue10( const AValue : Currency ) : IXRTLValue;
8547: Function XRTLSetsValue10( const IValue : IXRTLValue; const AValue : Currency ) : Currency;
8548: Function XRTLGetAsCurrency( const IValue : IXRTLValue ) : Currency;
8549: Function XRTLGetAsCurrencyDef( const IValue : IXRTLValue; const DefValue : Currency ) : Currency;
8550: Function XRTLValue11( const AValue : Comp ) : IXRTLValue;
8551: Function XRTLSetsValue11( const IValue : IXRTLValue; const AValue : Comp ) : Comp;
8552: Function XRTLGetAsComp( const IValue : IXRTLValue ) : Comp;
8553: Function XRTLGetAsCompDef( const IValue : IXRTLValue; const DefValue : Comp ) : Comp

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8554: Function XRTLValue12( const AValue : TClass ) : IXRTLValue;
8555: Function XRTLSetValue12( const IValue : IXRTLValue; const AValue : TClass ) : TClass;
8556: Function XRTLGetAsClass( const IValue : IXRTLValue ) : TClass
8557: Function XRTLGetAsClassDef( const IValue : IXRTLValue; const DefValue : TClass ) : TClass
8558: Function XRTLValue13( const AValue : TGUID ) : IXRTLValue;
8559: Function XRTLSetValue13( const IValue : IXRTLValue; const AValue : TGUID ) : TGUID;
8560: Function XRTLGetAsGUID( const IValue : IXRTLValue ) : TGUID
8561: Function XRTLGetAsGUIDDef( const IValue : IXRTLValue; const DefValue : TGUID ) : TGUID
8562: Function XRTLValue14( const AValue : Boolean ) : IXRTLValue;
8563: Function XRTLSetValue14( const IValue : IXRTLValue; const AValue : Boolean ) : Boolean;
8564: Function XRTLGetAsBoolean( const IValue : IXRTLValue ) : Boolean
8565: Function XRTLGetAsBooleanDef( const IValue : IXRTLValue; const DefValue : Boolean ) : Boolean
8566: end;
8567:
8568: //*****unit uPSI_GR32;*****
8569:
8570: Function Color32( WinColor : TColor ) : TColor32;
8571: Function Color321( R, G, B : Byte; A : Byte ) : TColor32;
8572: Function Color322( Index : Byte; var Palette : TPalette32 ) : TColor32;
8573: Function Gray32( Intensity : Byte; Alpha : Byte ) : TColor32
8574: Function WinColor( Color32 : TColor32 ) : TColor
8575: Function ArrayOfColor32( Colors : array of TColor32 ) : TArrayOfColor32
8576: Procedure Color32ToRGB( Color32 : TColor32; var R, G, B : Byte )
8577: Procedure Color32ToRGBA( Color32 : TColor32; var R, G, B, A : Byte )
8578: Function Color32Components( R, G, B, A : Boolean ) : TColor32Components
8579: Function RedComponent( Color32 : TColor32 ) : Integer
8580: Function GreenComponent( Color32 : TColor32 ) : Integer
8581: Function BlueComponent( Color32 : TColor32 ) : Integer
8582: Function AlphaComponent( Color32 : TColor32 ) : Integer
8583: Function Intensity( Color32 : TColor32 ) : Integer
8584: Function SetAlpha( Color32 : TColor32; NewAlpha : Integer ) : TColor32
8585: Function HSLtoRGB( H, S, L : Single ) : TColor32;
8586: Procedure RGBtoHSL( RGB : TColor32; out H, S, L : Single );
8587: Function HSLtoRGB1( H, S, L : Integer ) : TColor32;
8588: Procedure RGBtoHSL1( RGB : TColor32; out H, S, L : Byte );
8589: Function WinPalette( const P : TPalette32 ) : HPALETTE
8590: Function FloatPoint( X, Y : Single ) : TFloatPoint;
8591: Function FloatPoint1( const P : TPoint ) : TFfloatPoint;
8592: Function FloatPoint2( const FXP : TFfixedPoint ) : TFfloatPoint;
8593: Function FixedPoint( X, Y : Integer ) : TFfixedPoint;
8594: Function FixedPoint1( X, Y : Single ) : TFfixedPoint;
8595: Function FixedPoint2( const P : TPoint ) : TFfixedPoint;
8596: Function FixedPoint3( const FP : TFfloatPoint ) : TFfixedPoint;
8597: AddTypeS('TRectRounding', '( rrClosest, rrOutside, rrInside )'
8598: Function MakeRect( const L, T, R, B : Integer ) : TRect;
8599: Function MakeRect1( const FR : TFfloatRect; Rounding : TRectRounding ) : TRect;
8600: Function MakeRect2( const FXR : TRect; Rounding : TRectRounding ) : TRect;
8601: Function GFixedRect( const L, T, R, B : TFixed ) : TRect;
8602: Function FixedRect1( const ARect : TRect ) : TRect;
8603: Function FixedRect2( const FR : TFfloatRect ) : TRect;
8604: Function GFloatRect( const L, T, R, B : TFloat ) : TFfloatRect;
8605: Function FloatRect1( const ARect : TRect ) : TFfloatRect;
8606: Function FloatRect2( const FXR : TRect ) : TFfloatRect;
8607: Function GIIntersectRect( out Dst : TRect; const R1, R2 : TRect ) : Boolean;
8608: Function IntersectRect1( out Dst : TFfloatRect; const FR1, FR2 : TFfloatRect ) : Boolean;
8609: Function GUUnionRect( out Rect : TRect; const R1, R2 : TRect ) : Boolean;
8610: Function UnionRect1( out Rect : TFfloatRect; const R1, R2 : TFfloatRect ) : Boolean;
8611: Function GEEqualRect( const R1, R2 : TRect ) : Boolean;
8612: Function EqualRect1( const R1, R2 : TFfloatRect ) : Boolean;
8613: Procedure GIInflateRect( var R : TRect; Dx, Dy : Integer );
8614: Procedure InflateRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8615: Procedure GOOffsetRect( var R : TRect; Dx, Dy : Integer );
8616: Procedure OffsetRect1( var FR : TFfloatRect; Dx, Dy : TFloat );
8617: Function IsRectEmpty( const R : TRect ) : Boolean;
8618: Function IsRectEmpty1( const FR : TFfloatRect ) : Boolean;
8619: Function GPTInRect( const R : TRect; const P : TPoint ) : Boolean;
8620: Function PtInRect1( const R : TFfloatRect; const P : TPoint ) : Boolean;
8621: Function PtInRect2( const R : TRect; const P : TFfloatPoint ) : Boolean;
8622: Function PtInRect3( const R : TFfloatRect; const P : TFfloatPoint ) : Boolean;
8623: Function EqualRectSize( const R1, R2 : TRect ) : Boolean;
8624: Function EqualRectSized( const R1, R2 : TFfloatRect ) : Boolean;
8625: Function MessageBeep( uType : UINT ) : BOOL
8626: Function ShowCursor( bShow : BOOL ) : Integer
8627: Function SetCursorPos( X, Y : Integer ) : BOOL
8628: Function SetCursor( hCursor : HICON ) : HCURSOR
8629: Function GetCursorPos( var lpPoint : TPoint ) : BOOL
8630: //Function ClipCursor( lpRect : PRect ) : BOOL
8631: Function GetClipCursor( var lpRect : TRect ) : BOOL
8632: Function GetCursor : HCURSOR
8633: Function CreateCaret( hWnd : HWND; hBitmap : HBITMAP; nWidth, nHeight : Integer ) : BOOL
8634: Function GetCaretBlinkTime : UINT
8635: Function SetCaretBlinkTime( uMSeconds : UINT ) : BOOL
8636: Function DestroyCaret : BOOL
8637: Function HideCaret( hWnd : HWND ) : BOOL
8638: Function ShowCaret( hWnd : HWND ) : BOOL
8639: Function SetCaretPos( X, Y : Integer ) : BOOL
8640: Function GetCaretPos( var lpPoint : TPoint ) : BOOL
8641: Function ClientToScreen( hWnd : HWND; var lpPoint : TPoint ) : BOOL
8642: Function ScreenToClient( hWnd : HWND; var lpPoint : TPoint ) : BOOL

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8643: Function MapWindowPoints(hWndFrom,hWndTo:HWND; var lpPoints, cPoints : UINT) : Integer
8644: Function WindowFromPoint( Point : TPoint ) : HWND
8645: Function ChildWindowFromPoint( hWndParent : HWND; Point : TPoint ) : HWND
8646:
8647:
8648: procedure SIRegister_GR32_Math(CL: TPSPascalCompiler);
8649: begin
8650:   Function FixedFloor( A : TFixed ) : Integer
8651:   Function FixedCeil( A : TFixed ) : Integer
8652:   Function FixedMul( A, B : TFixed ) : TFixed
8653:   Function FixedDiv( A, B : TFixed ) : TFixed
8654:   Function OneOver( Value : TFixed ) : TFixed
8655:   Function FixedRound( A : TFixed ) : Integer
8656:   Function FixedSqr( Value : TFixed ) : TFixed
8657:   Function FixedSqrtLP( Value : TFixed ) : TFixed
8658:   Function FixedSqrtHP( Value : TFixed ) : TFixed
8659:   Function FixedCombine( W, X, Y : TFixed ) : TFixed
8660:   Procedure GRSinCos( const Theta : TFloat; out Sin, Cos : TFloat );
8661:   Procedure GRSinCos1( const Theta, Radius : Single; out Sin, Cos : Single );
8662:   Function GRHypot( const X, Y : TFloat ) : TFloat;
8663:   Function Hypotl( const X, Y : Integer ) : Integer;
8664:   Function FastSqrt( const Value : TFloat ) : TFloat
8665:   Function FastSqrtBab1( const Value : TFloat ) : TFloat
8666:   Function FastSqrtBab2( const Value : TFloat ) : TFloat
8667:   Function FastInvSqrt( const Value : Single ) : Single;
8668:   Function MulDiv( Multiplicand, Multiplier, Divisor : Integer ) : Integer
8669:   Function GRIsPowerOf2( Value : Integer ) : Boolean
8670:   Function PrevPowerOf2( Value : Integer ) : Integer
8671:   Function NextPowerOf2( Value : Integer ) : Integer
8672:   Function Average( A, B : Integer ) : Integer
8673:   Function GRSign( Value : Integer ) : Integer
8674:   Function FloatMod( x, y : Double ) : Double
8675: end;
8676:
8677: procedure SIRegister_GR32_LowLevel(CL: TPSPascalCompiler);
8678: begin
8679:   Function Clamp( const Value : Integer ) : Integer;
8680:   Procedure GRFillWord( var X, Count : Cardinal; Value : Longword )
8681:   Function StackAlloc( Size : Integer ) : Pointer
8682:   Procedure StackFree( P : Pointer )
8683:   Procedure Swap( var A, B : Pointer );
8684:   Procedure Swap1( var A, B : Integer );
8685:   Procedure Swap2( var A, B : TFixed );
8686:   Procedure Swap3( var A, B : TColor32 );
8687:   Procedure TestSwap( var A, B : Integer );
8688:   Procedure TestSwap1( var A, B : TFixed );
8689:   Function TestClip( var A, B : Integer; const Size : Integer ) : Boolean;
8690:   Function TestClip1( var A, B : Integer; const Start, Stop : Integer ) : Boolean;
8691:   Function GRConstrain( const Value, Lo, Hi : Integer ) : Integer;
8692:   Function Constraint1( const Value, Lo, Hi : Single ) : Single;
8693:   Function SwapConstrain( const Value:Integer; Constraint1,Constraint2:Integer ) : Integer
8694:   Function GRMin( const A, B, C : Integer ) : Integer;
8695:   Function GRMax( const A, B, C : Integer ) : Integer;
8696:   Function Clamp( Value, Max : Integer ) : Integer;
8697:   Function Clamp1( Value, Min, Max : Integer ) : Integer;
8698:   Function Wrap( Value, Max : Integer ) : Integer;
8699:   Function Wrap1( Value, Min, Max : Integer ) : Integer;
8700:   Function Wrap3( Value, Max : Single ) : Single;;
8701:   Function WrapPow2( Value, Max : Integer ) : Integer;
8702:   Function WrapPow21( Value, Min, Max : Integer ) : Integer;
8703:   Function Mirror( Value, Max : Integer ) : Integer;
8704:   Function Mirror1( Value, Min, Max : Integer ) : Integer;
8705:   Function MirrorPow2( Value, Max : Integer ) : Integer;
8706:   Function MirrorPow21( Value, Min, Max : Integer ) : Integer;
8707:   Function GetOptimalWrap( Max : Integer ) : TWrapProc;
8708:   Function GetOptimalWrap1( Min, Max : Integer ) : TWrapProcEx;
8709:   Function GetOptimalMirror( Max : Integer ) : TWrapProc;
8710:   Function GetOptimalMirror1( Min, Max : Integer ) : TWrapProcEx;
8711:   Function GetWrapProc( WrapMode : TWrapMode ) : TWrapProc;
8712:   Function GetWrapProc1( WrapMode : TWrapMode; Max : Integer ) : TWrapProc;
8713:   Function GetWrapProcEx( WrapMode : TWrapMode ) : TWrapProcEx;
8714:   Function GetWrapProcEx1( WrapMode : TWrapMode; Min, Max : Integer ) : TWrapProcEx;
8715:   Function Div255( Value : Cardinal ) : Cardinal;
8716:   Function SAR_4( Value : Integer ) : Integer;
8717:   Function SAR_8( Value : Integer ) : Integer;
8718:   Function SAR_9( Value : Integer ) : Integer;
8719:   Function SAR_11( Value : Integer ) : Integer;
8720:   Function SAR_12( Value : Integer ) : Integer;
8721:   Function SAR_13( Value : Integer ) : Integer;
8722:   Function SAR_14( Value : Integer ) : Integer;
8723:   Function SAR_15( Value : Integer ) : Integer;
8724:   Function SAR_16( Value : Integer ) : Integer;
8725:   Function ColorSwap( WinColor : TColor ) : TColor32;
8726: end;
8727:
8728: procedure SIRegister_GR32_Filters(CL: TPSPascalCompiler);
8729: begin
8730:   AddTypeS('TLogicalOperator', '( loXOR, loAND, loOR )');
8731:   Procedure CopyComponents( Dst, Src : TCustomBitmap32; Components : TColor32Components );

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8732: Procedure CopyComponents1(Dst:TCustBmap32;DstX,
8733:   DstY:Int;Src:TCustomBmap32;SrcRect:TRect;Components:TColor32Comp;
8734: Procedure AlphaToGrayscale( Dst, Src : TCustomBitmap32)
8735: Procedure ColorToGrayscale( Dst, Src : TCustomBitmap32; PreserveAlpha : Boolean)
8736: Procedure IntensityToAlpha( Dst, Src : TCustomBitmap32)
8737: Procedure Invert( Dst, Src : TCustomBitmap32; Components : TColor32Components)
8738: Procedure InvertRGB( Dst, Src : TCustomBitmap32)
8739: Procedure ApplyLUT( Dst, Src : TCustomBitmap32; const LUT : TLUT8; PreserveAlpha : Boolean)
8740: Procedure ChromaKey( ABitmap : TCustomBitmap32; TrColor : TColor32)
8741: Function CreateBitmask( Components : TColor32Components) : TColor32
8742: Procedure ApplyBitmask(Dst: TCustomBitmap32; DstX,DstY:Integer; Src:TCustomBitmap32; SrcRect : TRect;
8743:   Bitmask : TColor32; LogicalOperator : TLogicalOperator);
8744: Procedure ApplyBitmask1(ABitmap:TCustomBitmap32;ARect:TRect;Bitmask:TColor32;LogicalOperator:TLogicalOperator);
8745: Procedure CheckParams( Dst, Src : TCustomBitmap32; ResizeDst : Boolean)
8746:
8747: procedure SIRegister_JclNTFS(CL: TPPascalCompiler);
8748: begin
8749:   AddClassN(FindClass('TOBJECT'),'EJclNtfsError'
8750:   AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNTLCompression )
8751:   Function NtfsGetCompression( const FileName : string; var State : Short ) : Boolean;
8752:   Function NtfsGetCompression( const FileName : string ) : TFileCompressionState;
8753:   Function NtfsSetCompression( const FileName : string; const State : Short ) : Boolean
8754:   Procedure NtfsSetFileCompression( const FileName : string; const State : TFileCompressionState )
8755:   Procedure NtfsSetDirectoryTreeCompression(const Directory: string; const State : TFileCompressionState)
8756:   Procedure NtfsSetDefaultFileCompression(const Directory: string; const State:TFileCompressionState)
8757:   Procedure NtfsSetPathCompression(const Path:string;const State:TFileCompressionState;Recursive:Boolean;
8758:   //AddTypeS('TNtfsAllocRanges', 'record Entries : Integer; Data : PFileAlloca
8759:   //'+tedRangeBuffer; MoreData : Boolean; end
8760:   Function NtfsSetSparse( const FileName : string ) : Boolean
8761:   Function NtfsZeroDataByHandle( const Handle : THandle; const First, Last : Int64 ) : Boolean
8762:   Function NtfsZeroDataByName( const FileName : string; const First, Last : Int64 ) : Boolean
8763:   //Function NtfsQueryAllocRanges(const FileName:string;Offset,Count:Int64;var
8764:   Ranges:TNtfsAllocRanges):Boolean;
8765:   //Function NtfsGetAllocRangeEntry( const Ranges : TNtfsAllocRanges;
8766:   Index:Integer):TFileAllocatedRangeBuffer
8767:   Function NtfsSparseStreamsSupported( const Volume : string ) : Boolean
8768:   Function NtfsGetSparse( const FileName : string ) : Boolean
8769:   Function NtfsDeleteReparsePoint( const FileName : string; ReparseTag : DWORD ) : Boolean
8770:   Function NtfsSetReparsePoint( const FileName : string; var ReparseData, Size : Longword ) : Boolean
8771:   //Function NtfsGetReparsePoint(const FileName:string; var ReparseData:TReparseGuidDataBuffer):Boolean
8772:   Function NtfsGetReparseTag( const Path : string; var Tag : DWORD ) : Boolean
8773:   Function NtfsReparsePointsSupported( const Volume : string ) : Boolean
8774:   Function NtfsFileHasReparsePoint( const Path : string ) : Boolean
8775:   Function NtfsIsFolderMountPoint( const Path : string ) : Boolean
8776:   Function NtfsMountDeviceAsDrive( const Device : string; Drive : Char ) : Boolean
8777:   Function NtfsMountVolume( const Volume : Char; const MountPoint : string ) : Boolean
8778:   AddTypeS('TopLock', '( olExclusive, olReadOnly, olBatch, olFilter )
8779:   Function NtfsOpLockAckClosePending( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8780:   Function NtfsOpLockBreakAckNo2( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8781:   Function NtfsOpLockBreakAcknowledge( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8782:   Function NtfsOpLockBreakNotify( Handle : THandle; Overlapped : TOverlapped ) : Boolean
8783:   Function NtfsRequestOpLock( Handle : THandle; Kind : TopLock; Overlapped : TOverlapped ) : Boolean
8784:   Function NtfsCreateJunctionPoint( const Source, Destination : string ) : Boolean
8785:   Function NtfsDeleteJunctionPoint( const Source : string ) : Boolean
8786:   Function NtfsGetJunctionPointDestination( const Source : string; var Destination : string ) : Boolean
8787:   AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
8788:   +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints, siSparseFile )
8789:   AddTypeS('TStreamIds', 'set of TStreamId
8790:   AddTypeS('TInternalFindStreamData', 'record FileHandle : THandle; Context '
8791:   +': __Pointer; StreamIds : TStreamIds; end
8792:   AddTypeS('TFindStreamData', 'record internal : TInternalFindStreamData; At'
8793:   +'tributes : DWORD; StreamID : TStreamId; Name : WideString; Size : Int64; end
8794:   Function NtfsFindFirstStream(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Boolean;
8795:   Function NtfsFindNextStream( var Data : TFindStreamData) : Boolean
8796:   Function NtfsFindStreamClose( var Data : TFindStreamData) : Boolean
8797:   Function NtfsCreateHardLink( const LinkFileName, ExistingFileName : string ) : Boolean
8798:   AddTypeS('TNTfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end
8799:   Function NtfsGetHardLinkInfo( const FileName : string; var Info : TNtfsHardLinkInfo ) : Boolean
8800:   Function NtfsFindHardLinks(const Path:string;const FileIndexHigh,FileIndexLow:Cardinal;const
8801:   List:TStrings):Bool;
8802:   Function NtfsDeleteHardLinks( const FileName : string ) : Boolean
8803:   Function JclAppInstances : TJclAppInstances;
8804:   Function ReadMessageCheck( var Message: TMessage;const IgnoredOriginatorWnd: Hwnd ) : TJclAppInstDataKind
8805:   Procedure ReadMessageData( const Message : TMessage; var Data : __Pointer; var Size : Integer)
8806:   Procedure ReadMessageString( const Message : TMessage; var S : string)
8807:   Procedure ReadMessageStrings( const Message : TMessage; const Strings : TStrings)
8808:   (*-----*)
8809: procedure SIRegister_JclGraphics(CL: TPPascalCompiler);
8810: begin
8811:   FindClass('TOBJECT'),'EJclGraphicsError
8812:   TDynDynIntegerArrayArray', 'array of TDynIntegerArray
8813:   TDynPointArray', 'array of TPoint
8814:   TDynDynPointArrayArray', 'array of TDynPointArray

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

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8897: SIRegister_TJclWaitableTimer(CL);
8898: SIRegister_TJclSemaphore(CL);
8899: SIRegister_TJclMutex(CL);
8900: POptexSharedInfo', '^POptexSharedInfo // will not work
8901: TOptexSharedInfo', 'record SpinCount:Int; LockCount: Int; ThreadId:Longword; RecursionCount:Int; end
8902: SIRegister_TJclOptex(CL);
8903: TMrewPreferred', '( mpReaders, mpWriters, mpEqual )
8904: TMrewThreadId', 'record Threadid : Longword; RecursionCount: Integer; Reader : Boolean; end
8905: TMrewThreadInfoArray', 'array of TMrewThreadInfo
8906: SIRegister_TJclMultiReadExclusiveWrite(CL);
8907: PMetSectSharedInfo', '^TMetSectSharedInfo // will not work
8908: TMetSectSharedInfo', 'record Initialized : LongBool; SpinLock : '
8909: + 'Longint; ThreadsWaiting : Longint; AvailableCount : Longint; MaximumCount : Longint; end
8910: PMeteredSection', '^TMeteredSection // will not work
8911: TMeteredSection', 'record Event : THandle; FileMap : THandle; SharedInfo : PMetSectSharedInfo; end
8912: SIRegister_TJclMeteredSection(CL);
8913: TEventInfo', 'record EventType : Longint; Signaled : LongBool; end
8914: TMutexInfo', 'record SignalState : Longint; Owned : Boolean; Abandoned : Boolean; end
8915: TSemaphoreCounts', 'record CurrentCount : Longint; MaximumCount: Longint; end
8916: TTimerInfo', 'record Remaining : TLargeInteger; Signaled : LongBool; end
8917: Function QueryCriticalSection( CS : TJclCriticalSection; var Info : TRTLCriticalSection ) : Boolean
8918: Function QueryEvent( Handle : THandle; var Info : TEventInfo ) : Boolean
8919: Function QueryMutex( Handle : THandle; var Info : TMutexInfo ) : Boolean
8920: Function QuerySemaphore( Handle : THandle; var Info : TSemaphoreCounts ) : Boolean
8921: Function QueryTimer( Handle : THandle; var Info : TTimerInfo ) : Boolean
8922: FindClass('TOBJECT'), 'EJclWin32HandleObjectError
8923: FindClass('TOBJECT'), 'EJclDispatcherObjectError
8924: FindClass('TOBJECT'), 'EJclCriticalSectionError
8925: FindClass('TOBJECT'), 'EJclEventError
8926: FindClass('TOBJECT'), 'EJclWaitableTimerError
8927: FindClass('TOBJECT'), 'EJclSemaphoreError
8928: FindClass('TOBJECT'), 'EJclMutexError
8929: FindClass('TOBJECT'), 'EJclMeteredSectionError
8930: end;
8931:
8932:
8933: //*****unit uPSI_mORMotReport;
8934: Procedure SetCurrentPrinterAsDefault
8935: Function CurrentPrinterName : string
8936: Function mCurrentPrinterPaperSize : string
8937: Procedure UseDefaultPrinter
8938:
8939: procedure SIRегистerTSTREAM(Cl: TPSPascalCompiler);
8940: begin
8941:   with FindClass('TOBJECT'), 'TStream') do begin
8942:     IsAbstract := True;
8943:     //RegisterMethod('Function Read( var Buffer, Count : Longint) : Longint
8944:     // RegisterMethod('Function Write( const Buffer, Count : Longint) : Longint
8945:     function Read(Buffer:String;Count:LongInt):LongInt
8946:     function Write(Buffer:String;Count:LongInt):LongInt
8947:     function ReadString(Buffer:String;Count:LongInt):LongInt    //FileStream
8948:     function WriteString(Buffer:String;Count:LongInt):LongInt
8949:     function ReadInt(Buffer:integer;Count:LongInt):LongInt
8950:     function WriteInt(Buffer:integer;Count:LongInt):LongInt
8951:     function ReadByteArray(Buffer:TByteArray;Count:LongInt):LongInt';
8952:     function WriteByteArray(Buffer:TByteArray;Count:LongInt):LongInt';

8953:
8954:   procedure ReadAB(Buffer: TByteArray;Count:LongInt)
8955:   procedure WriteAB(Buffer: TByteArray;Count:LongInt)
8956:   procedure ReadABD(Buffer: TByteDynArray;Count:LongInt)
8957:   procedure WriteABD(Buffer: TByteDynArray;Count:LongInt)
8958:   procedure ReadAC(Buffer: TCharArray;Count:LongInt)
8959:   procedure WriteAC(Buffer: TCharArray;Count:LongInt)
8960:   procedure ReadACD(Buffer: TCharDynArray;Count:LongInt)
8961:   procedure WriteACD(Buffer: TCharDynArray;Count:LongInt)
8962:
8963:   function Seek(Offset:LongInt;Origin:Word):LongInt
8964:   procedure ReadBuffer(Buffer:String;Count:LongInt)
8965:   procedure WriteBuffer(Buffer:String;Count:LongInt)
8966:   procedure ReadBufferInt(Buffer:Integer;Count:LongInt');
8967:   procedure WriteBufferInt(Buffer:Integer;Count:LongInt');
8968:   procedure ReadBufferFloat(Buffer:Double;Count:LongInt');
8969:   Procedure WriteBufferFloat(Buffer:Double;Count:LongInt');

8970:
8971:   procedure ReadBufferAB(Buffer: TByteArray;Count:LongInt)
8972:   procedure WriteBufferAB(Buffer: TByteArray;Count:LongInt)
8973:   procedure ReadBufferABD(Buffer: TByteDynArray;Count:LongInt)
8974:   procedure WriteBufferABD(Buffer: TByteDynArray;Count:LongInt)
8975:   procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8976:   procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8977:   procedure ReadBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8978:   procedure WriteBufferAWD(Buffer: TWordDynArray;Count:LongInt)
8979:   procedure ReadBufferAW(Buffer: TWordArray;Count:LongInt)
8980:   procedure WriteBufferAW(Buffer: TWordArray;Count:LongInt)
8981:   procedure ReadBufferAC(Buffer: TCharArray;Count:LongInt)
8982:   procedure WriteBufferAC(Buffer: TCharArray;Count:LongInt)
8983:   procedure ReadBufferACD(Buffer: TCharDynArray;Count:LongInt)
8984:   procedure WriteBufferACD(Buffer: TCharDynArray;Count:LongInt)
8985:

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

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

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

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

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9342: { Eigenvalues and eigenvectors of a symmetric matrix (SVD method) }
9343: procedure Jacobi(A : TMatrix;
9344:           Lb, Ub, MaxIter : Integer;
9345:           Tol : Float;
9346:           Lambda : TVector;
9347:           V : TMatrix); external 'dmath';
9348: { Eigenvalues and eigenvectors of a symmetric matrix (Jacobi method) }
9349: { -----
9350: Optimization
9351: ----- }
9352: procedure MinBrack(Func : TFunc;
9353:           var A, B, C, Fa, Fb, Fc : Float); external 'dmath';
9354: { Brackets a minimum of a function }
9355: procedure GoldSearch(Func : TFunc;
9356:           A, B : Float;
9357:           MaxIter : Integer;
9358:           Tol : Float;
9359:           var Xmin, Ymin : Float); external 'dmath';
9360: { Minimization of a function of one variable (golden search) }
9361: procedure LinMin(Func : TFuncNVar;
9362:           X, DeltaX : TVector;
9363:           Lb, Ub : Integer;
9364:           var R : Float;
9365:           MaxIter : Integer;
9366:           Tol : Float;
9367:           var F_min : Float); external 'dmath';
9368: { Minimization of a function of several variables along a line }
9369: procedure Newton(Func : TFuncNVar;
9370:           HessGrad : THessGrad;
9371:           X : TVector;
9372:           Lb, Ub : Integer;
9373:           MaxIter : Integer;
9374:           Tol : Float;
9375:           var F_min : Float;
9376:           G : TVector;
9377:           H_inv : TMatrix;
9378:           var Det : Float); external 'dmath';
9379: { Minimization of a function of several variables (Newton's method) }
9380: procedure SaveNewton(FileName : string); external 'dmath';
9381: { Save Newton iterations in a file }
9382: procedure Marquardt(Func : TFuncNVar;
9383:           HessGrad : THessGrad;
9384:           X : TVector;
9385:           Lb, Ub : Integer;
9386:           MaxIter : Integer;
9387:           Tol : Float;
9388:           var F_min : Float;
9389:           G : TVector;
9390:           H_inv : TMatrix;
9391:           var Det : Float); external 'dmath';
9392: { Minimization of a function of several variables (Marquardt's method) }
9393: procedure SaveMarquardt(FileName : string); external 'dmath';
9394: { Save Marquardt iterations in a file }
9395: procedure BFGS(Func : TFuncNVar;
9396:           Gradient : TGradient;
9397:           X : TVector;
9398:           Lb, Ub : Integer;
9399:           MaxIter : Integer;
9400:           Tol : Float;
9401:           var F_min : Float;
9402:           G : TVector;
9403:           H_inv : TMatrix); external 'dmath';
9404: { Minimization of a function of several variables (BFGS method) }
9405: procedure SaveBFGS(FileName : string); external 'dmath';
9406: { Save BFGS iterations in a file }
9407: procedure Simplex(Func : TFuncNVar;
9408:           X : TVector;
9409:           Lb, Ub : Integer;
9410:           MaxIter : Integer;
9411:           Tol : Float;
9412:           var F_min : Float); external 'dmath';
9413: { Minimization of a function of several variables (Simplex) }
9414: procedure SaveSimplex(FileName : string); external 'dmath';
9415: { Save Simplex iterations in a file }
9416: { -----
9417: Nonlinear equations
9418: ----- }
9419: procedure RootBrack(Func : TFunc;
9420:           var X, Y, FX, FY : Float); external 'dmath';
9421: { Brackets a root of function Func between X and Y }
9422: procedure Bisect(Func : TFunc;
9423:           var X, Y : Float;
9424:           MaxIter : Integer;
9425:           Tol : Float;
9426:           var F : Float); external 'dmath';
9427: { Bisection method }
9428: procedure Secant(Func : TFunc;
9429:           var X, Y : Float;
9430:           MaxIter : Integer);

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9431:           Tol      : Float;
9432:           var F      : Float); external 'dmath';
9433: { Secant method }
9434: procedure NewtEq(Func, Deriv : TFunc;
9435:                      var X      : Float;
9436:                      MaxIter   : Integer;
9437:                      Tol       : Float;
9438:                      var F      : Float); external 'dmath';
9439: { Newton-Raphson method for a single nonlinear equation }
9440: procedure NewtEqs(Equations : TEquations;
9441:                      Jacobian : TJacobian;
9442:                      X, F      : TVector;
9443:                      Lb, Ub    : Integer;
9444:                      MaxIter   : Integer;
9445:                      Tol       : Float); external 'dmath';
9446: { Newton-Raphson method for a system of nonlinear equations }
9447: procedure Broyden(Equations : TEquations;
9448:                      X, F      : TVector;
9449:                      Lb, Ub    : Integer;
9450:                      MaxIter   : Integer;
9451:                      Tol       : Float); external 'dmath';
9452: { Broyden's method for a system of nonlinear equations }
9453: { -----
9454: Polynomials and rational fractions
9455: ----- }
9456: function Poly(X      : Float;
9457:                  Coef   : TVector;
9458:                  Deg    : Integer) : Float; external 'dmath';
9459: { Evaluates a polynomial }
9460: function Rfrac(X     : Float;
9461:                  Coef   : TVector;
9462:                  Deg1, Deg2 : Integer) : Float; external 'dmath';
9463: { Evaluates a rational fraction }
9464: function RootPol1(A, B : Float;
9465:                      var X : Float) : Integer; external 'dmath';
9466: { Solves the linear equation A + B * X = 0 }
9467: function RootPol2(Coef : TVector;
9468:                      Z    : TCompVector) : Integer; external 'dmath';
9469: { Solves a quadratic equation }
9470: function RootPol3(Coef : TVector;
9471:                      Z    : TCompVector) : Integer; external 'dmath';
9472: { Solves a cubic equation }
9473: function RootPol4(Coef : TVector;
9474:                      Z    : TCompVector) : Integer; external 'dmath';
9475: { Solves a quartic equation }
9476: function RootPol(Coef : TVector;
9477:                  Deg   : Integer;
9478:                  Z    : TCompVector) : Integer; external 'dmath';
9479: { Solves a polynomial equation }
9480: function SetRealRoots(Deg : Integer;
9481:                          Z    : TCompVector;
9482:                          Tol  : Float) : Integer; external 'dmath';
9483: { Set the imaginary part of a root to zero }
9484: procedure SortRoots(Deg : Integer;
9485:                        Z    : TCompVector); external 'dmath';
9486: { Sorts the roots of a polynomial }
9487: { -----
9488: Numerical integration and differential equations
9489: ----- }
9490: function TrapInt(X, Y : TVector; N : Integer) : Float; external 'dmath';
9491: { Integration by trapezoidal rule }
9492: function GausLeg(Func : TFunc; A, B : Float) : Float; external 'dmath';
9493: { Integral from A to B }
9494: function GausLeg0(Func : TFunc; B : Float) : Float; external 'dmath';
9495: { Integral from 0 to B }
9496: function Convol(Func1, Func2 : TFunc; T : Float) : Float; external 'dmath';
9497: { Convolution product at time T }
9498: procedure ConvTrap(Func1, Func2:TFunc; T,Y:TVector; N:Integer);external 'dmath';
9499: { Convolution by trapezoidal rule }
9500: procedure RKF45(F          : TDiffEqs;
9501:                     Neqn     : Integer;
9502:                     Y, Yp    : TVector;
9503:                     var T     : Float;
9504:                     Tout, RelErr, AbsErr : Float;
9505:                     var Flag   : Integer); external 'dmath';
9506: { Integration of a system of differential equations }
9507: { -----
9508: Fast Fourier Transform
9509: ----- }
9510: procedure FFT(NumSamples   : Integer;
9511:                  InArray, OutArray : TCompVector); external 'dmath';
9512: { Fast Fourier Transform }
9513: procedure IFFT(NumSamples  : Integer;
9514:                  InArray, OutArray : TCompVector); external 'dmath';
9515: { Inverse Fast Fourier Transform }
9516: procedure FFT_Integer(NumSamples : Integer;
9517:                           RealIn, ImagIn : TIntVector;
9518:                           OutArray     : TCompVector); external 'dmath';
9519: { Fast Fourier Transform for integer data }

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

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

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

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9787:           B      : TVector;
9788:           V      : TMatrix); external 'dmath';
9789: { Unweighted polynomial regression by singular value decomposition }
9790: procedure WSVDPolFit(X, Y, S      : TVector;
9791:                       Lb, Ub, Deg : Integer;
9792:                       SVDTol   : Float;
9793:                       B      : TVector;
9794:                       V      : TMatrix); external 'dmath';
9795: { Weighted polynomial regression by singular value decomposition }
9796: procedure RegTest(Y, Ycalc : TVector;
9797:                      LbY, UbY : Integer;
9798:                      V      : TMatrix;
9799:                      LbV, UbV : Integer;
9800: var Test : TRegTest); external 'dmath';
9801: { Test of unweighted regression }
9802: procedure WRegTest(Y, Ycalc, S : TVector;
9803:                      LbY, UbY : Integer;
9804:                      V      : TMatrix;
9805:                      LbV, UbV : Integer;
9806: var Test : TRegTest); external 'dmath';
9807: { Test of weighted regression }
9808: { -----
9809: Nonlinear regression
9810: ----- }
9811: procedure SetOptAlgo(Algo : TOptAlgo); external 'dmath';
9812: { Sets the optimization algorithm for nonlinear regression }
9813: function GetOptAlgo : TOptAlgo; external 'dmath';
9814: { Returns the optimization algorithm }
9815: procedure SetMaxParam(N : Byte); external 'dmath';
9816: { Sets the maximum number of regression parameters for nonlinear regression }
9817: function GetMaxParam : Byte; external 'dmath';
9818: { Returns the maximum number of regression parameters for nonlinear regression }
9819: procedure SetParamBounds(I : Byte; ParamMin, ParamMax : Float); external 'dmath';
9820: { Sets the bounds on the I-th regression parameter }
9821: procedure GetParamBounds(I : Byte; var ParamMin, ParamMax:Float); external 'dmath';
9822: { Returns the bounds on the I-th regression parameter }
9823: procedure NLFit(RegFunc   : TRegFunc;
9824:                    DerivProc : TDervProc;
9825:                    X, Y     : TVector;
9826:                    Lb, Ub   : Integer;
9827:                    MaxIter  : Integer;
9828:                    Tol      : Float;
9829:                    B       : TVector;
9830:                    FirstPar,
9831:                    LastPar  : Integer;
9832:                    V       : TMatrix); external 'dmath';
9833: { Unweighted nonlinear regression }
9834: procedure WNLFit(RegFunc   : TRegFunc;
9835:                    DerivProc : TDervProc;
9836:                    X, Y, S  : TVector;
9837:                    Lb, Ub   : Integer;
9838:                    MaxIter  : Integer;
9839:                    Tol      : Float;
9840:                    B       : TVector;
9841:                    FirstPar,
9842:                    LastPar  : Integer;
9843:                    V       : TMatrix); external 'dmath';
9844: { Weighted nonlinear regression }
9845: procedure SetMCFile(FileName : String); external 'dmath';
9846: { Set file for saving MCMC simulations }
9847: procedure SimFit(RegFunc   : TRegFunc;
9848:                    X, Y     : TVector;
9849:                    Lb, Ub   : Integer;
9850:                    B       : TVector;
9851:                    FirstPar,
9852:                    LastPar  : Integer;
9853:                    V       : TMatrix); external 'dmath';
9854: { Simulation of unweighted nonlinear regression by MCMC }
9855: procedure WSimFit(RegFunc   : TRegFunc;
9856:                    X, Y, S  : TVector;
9857:                    Lb, Ub   : Integer;
9858:                    B       : TVector;
9859:                    FirstPar,
9860:                    LastPar  : Integer;
9861:                    V       : TMatrix); external 'dmath';
9862: { Simulation of weighted nonlinear regression by MCMC }
9863: { -----
9864: Nonlinear regression models
9865: ----- }
9866: procedure FracFit(X, Y      : TVector;
9867:                      Lb, Ub   : Integer;
9868:                      Deg1, Deg2 : Integer;
9869:                      ConsTerm : Boolean;
9870:                      MaxIter  : Integer;
9871:                      Tol      : Float;
9872:                      B       : TVector;
9873:                      V       : TMatrix); external 'dmath';
9874: { Unweighted fit of rational fraction }
9875: procedure WFractFit(X, Y, S   : TVector;

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9876:           Lb, Ub      : Integer;
9877:           Deg1, Deg2 : Integer;
9878:           ConsTerm   : Boolean;
9879:           MaxIter    : Integer;
9880:           Tol        : Float;
9881:           B          : TVector;
9882:           V          : TMatrix); external 'dmath';
9883: { Weighted fit of rational fraction }
9884:
9885: function FracFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9886: { Returns the value of the rational fraction at point X }
9887: procedure ExpFit(X, Y      : TVector;
9888:           Lb, Ub, Nexp : Integer;
9889:           ConsTerm   : Boolean;
9890:           MaxIter    : Integer;
9891:           Tol        : Float;
9892:           B          : TVector;
9893:           V          : TMatrix); external 'dmath';
9894: { Unweighted fit of sum of exponentials }
9895: procedure WExpFit(X, Y, S   : TVector;
9896:           Lb, Ub, Nexp : Integer;
9897:           ConsTerm   : Boolean;
9898:           MaxIter    : Integer;
9899:           Tol        : Float;
9900:           B          : TVector;
9901:           V          : TMatrix); external 'dmath';
9902: { Weighted fit of sum of exponentials }
9903: function ExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9904: { Returns the value of the regression function at point x }
9905: procedure IncExpFit(X, Y   : TVector;
9906:           Lb, Ub      : Integer;
9907:           ConsTerm   : Boolean;
9908:           MaxIter    : Integer;
9909:           Tol        : Float;
9910:           B          : TVector;
9911:           V          : TMatrix); external 'dmath';
9912: { Unweighted fit of model of increasing exponential }
9913: procedure WIIncExpFit(X, Y, S : TVector;
9914:           Lb, Ub      : Integer;
9915:           ConsTerm   : Boolean;
9916:           MaxIter    : Integer;
9917:           Tol        : Float;
9918:           B          : TVector;
9919:           V          : TMatrix); external 'dmath';
9920: { Weighted fit of increasing exponential }
9921: function IncExpFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9922: { Returns the value of the regression function at point x }
9923: procedure ExpLinFit(X, Y   : TVector;
9924:           Lb, Ub      : Integer;
9925:           MaxIter    : Integer;
9926:           Tol        : Float;
9927:           B          : TVector;
9928:           V          : TMatrix); external 'dmath';
9929: { Unweighted fit of the "exponential + linear" model }
9930: procedure WExpLinFit(X, Y, S : TVector;
9931:           Lb, Ub      : Integer;
9932:           MaxIter    : Integer;
9933:           Tol        : Float;
9934:           B          : TVector;
9935:           V          : TMatrix); external 'dmath';
9936: { Weighted fit of the "exponential + linear" model }
9937:
9938: function ExpLinFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9939: { Returns the value of the regression function at point x }
9940: procedure MichFit(X, Y   : TVector;
9941:           Lb, Ub      : Integer;
9942:           MaxIter    : Integer;
9943:           Tol        : Float;
9944:           B          : TVector;
9945:           V          : TMatrix); external 'dmath';
9946: { Unweighted fit of Michaelis equation }
9947: procedure WMichFit(X, Y, S : TVector;
9948:           Lb, Ub      : Integer;
9949:           MaxIter    : Integer;
9950:           Tol        : Float;
9951:           B          : TVector;
9952:           V          : TMatrix); external 'dmath';
9953: { Weighted fit of Michaelis equation }
9954: function MichFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9955: { Returns the value of the Michaelis equation at point x }
9956: procedure MintFit(X, Y   : TVector;
9957:           Lb, Ub      : Integer;
9958:           MintVar   : TMintVar;
9959:           Fit_S0    : Boolean;
9960:           MaxIter    : Integer;
9961:           Tol        : Float;
9962:           B          : TVector;
9963:           V          : TMatrix); external 'dmath';
9964: { Unweighted fit of the integrated Michaelis equation }

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9965: procedure WMintFit(X, Y, S : TVector;
9966:           Lb, Ub : Integer;
9967:           MintVar : TMintVar;
9968:           Fit_S0 : Boolean;
9969:           MaxIter : Integer;
9970:           Tol : Float;
9971:           B : TVector;
9972:           V : TMatrix); external 'dmath';
9973: { Weighted fit of the integrated Michaelis equation }
9974: function MintFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9975: { Returns the value of the integrated Michaelis equation at point X }
9976: procedure HillFit(X, Y : TVector;
9977:           Lb, Ub : Integer;
9978:           MaxIter : Integer;
9979:           Tol : Float;
9980:           B : TVector;
9981:           V : TMatrix); external 'dmath';
9982: { Unweighted fit of Hill equation }
9983: procedure WHillFit(X, Y, S : TVector;
9984:           Lb, Ub : Integer;
9985:           MaxIter : Integer;
9986:           Tol : Float;
9987:           B : TVector;
9988:           V : TMatrix); external 'dmath';
9989: { Weighted fit of Hill equation }
9990: function HillFit_Func(X : Float; B : TVector) : Float; external 'dmath';
9991: { Returns the value of the Hill equation at point X }
9992: procedure LogiFit(X, Y : TVector;
9993:           Lb, Ub : Integer;
9994:           ConsTerm : Boolean;
9995:           General : Boolean;
9996:           MaxIter : Integer;
9997:           Tol : Float;
9998:           B : TVector;
9999:           V : TMatrix); external 'dmath';
10000: { Unweighted fit of logistic function }
10001: procedure WLogiFit(X, Y, S : TVector;
10002:           Lb, Ub : Integer;
10003:           ConsTerm : Boolean;
10004:           General : Boolean;
10005:           MaxIter : Integer;
10006:           Tol : Float;
10007:           B : TVector;
10008:           V : TMatrix); external 'dmath';
10009: { Weighted fit of logistic function }
10010: function LogiFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10011: { Returns the value of the logistic function at point X }
10012: procedure PKFit(X, Y : TVector;
10013:           Lb, Ub : Integer;
10014:           MaxIter : Integer;
10015:           Tol : Float;
10016:           B : TVector;
10017:           V : TMatrix); external 'dmath';
10018: { Unweighted fit of the acid-base titration curve }
10019: procedure WPKFIt(X, Y, S : TVector;
10020:           Lb, Ub : Integer;
10021:           MaxIter : Integer;
10022:           Tol : Float;
10023:           B : TVector;
10024:           V : TMatrix); external 'dmath';
10025: { Weighted fit of the acid-base titration curve }
10026: function PKFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10027: { Returns the value of the acid-base titration function at point X }
10028: procedure PowFit(X, Y : TVector;
10029:           Lb, Ub : Integer;
10030:           MaxIter : Integer;
10031:           Tol : Float;
10032:           B : TVector;
10033:           V : TMatrix); external 'dmath';
10034: { Unweighted fit of power function }
10035: procedure WPowFit(X, Y, S : TVector;
10036:           Lb, Ub : Integer;
10037:           MaxIter : Integer;
10038:           Tol : Float;
10039:           B : TVector;
10040:           V : TMatrix); external 'dmath';
10041: { Weighted fit of power function }
10042: function PowFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10043: { Returns the value of the power function at point X }
10044: procedure GammaFit(X, Y : TVector;
10045:           Lb, Ub : Integer;
10046:           MaxIter : Integer;
10047:           Tol : Float;
10048:           B : TVector;
10049:           V : TMatrix); external 'dmath';
10050: { Unweighted fit of gamma distribution function }
10051: procedure WGammaFit(X, Y, S : TVector;
10052:           Lb, Ub : Integer;
10053:           
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10054:           MaxIter : Integer;
10055:           Tol    : Float;
10056:           B      : TVector;
10057:           V      : TMatrix); external 'dmath';
10058: { Weighted fit of gamma distribution function }
10059: function GammaFit_Func(X : Float; B : TVector) : Float; external 'dmath';
10060: { Returns the value of the gamma distribution function at point X }
10061: { -----
10062:   Principal component analysis
10063:   ----- }
10064: procedure VecMean(X      : TMatrix;
10065:                      Lb, Ub, Nvar : Integer;
10066:                      M      : TVector); external 'dmath';
10067: { Computes the mean vector M from matrix X }
10068: procedure VecSD(X      : TMatrix;
10069:                      Lb, Ub, Nvar : Integer;
10070:                      M, S      : TVector); external 'dmath';
10071: { Computes the vector of standard deviations S from matrix X }
10072: procedure MatVarCov(X      : TMatrix;
10073:                      Lb, Ub, Nvar : Integer;
10074:                      M      : TVector;
10075:                      V      : TMatrix); external 'dmath';
10076: { Computes the variance-covariance matrix V from matrix X }
10077: procedure MatCorrel(V      : TMatrix;
10078:                      Nvar : Integer;
10079:                      R      : TMatrix); external 'dmath';
10080: { Computes the correlation matrix R from the var-cov matrix V }
10081: procedure PCA(R      : TMatrix;
10082:                      Nvar : Integer;
10083:                      Lambda : TVector;
10084:                      C, Rc : TMatrix); external 'dmath';
10085: { Performs a principal component analysis of the correlation matrix R }
10086: procedure ScaleVar(X      : TMatrix;
10087:                      Lb, Ub, Nvar : Integer;
10088:                      M, S      : TVector;
10089:                      Z      : TMatrix); external 'dmath';
10090: { Scales a set of variables by subtracting means and dividing by SD's }
10091: procedure PrinFac(Z      : TMatrix;
10092:                      Lb, Ub, Nvar : Integer;
10093:                      C, F      : TMatrix); external 'dmath';
10094: { Computes principal factors }
10095: { -----
10096:   Strings
10097:   ----- }
10098: function LTrim(S : String) : String; external 'dmath';
10099: { Removes leading blanks }
10100: function RTrim(S : String) : String; external 'dmath';
10101: { Removes trailing blanks }
10102: function Trim(S : String) : String; external 'dmath';
10103: { Removes leading and trailing blanks }
10104: function StrChar(N : Byte; C : Char) : String; external 'dmath';
10105: { Returns a string made of character C repeated N times }
10106: function RFill(S : String; L : Byte) : String; external 'dmath';
10107: { Completes string S with trailing blanks for a total length L }
10108: function LFill(S : String; L : Byte) : String; external 'dmath';
10109: { Completes string S with leading blanks for a total length L }
10110: function CFill(S : String; L : Byte) : String; external 'dmath';
10111: { Centers string S on a total length L }
10112: function Replace(S : String; C1, C2 : Char) : String; external 'dmath';
10113: { Replaces in string S all the occurrences of C1 by C2 }
10114: function Extract(S : String; var Index : Byte; Delim : Char) : String; external 'dmath';
10115: { Extracts a field from a string }
10116: procedure Parse(S : String; Delim:Char; Field:TStrVector; var N:Byte); external 'dmath';
10117: { Parses a string into its constitutive fields }
10118: procedure SetFormat(NumLength,MaxDec:Integer;FloatPoint,NSZero:Bool); external 'dmath';
10119: { Sets the numeric format }
10120: function FloatToStr(X : Float) : String; external 'dmath';
10121: { Converts a real to a string according to the numeric format }
10122: function IntToStr(N : LongInt) : String; external 'dmath';
10123: { Converts an integer to a string }
10124: function CompStr(Z : Complex) : String; external 'dmath';
10125: { Converts a complex number to a string }
10126: {$IFDEF DELPHI}
10127: function StrDec(S : String) : String; external 'dmath';
10128: { Set decimal separator to the symbol defined in SysUtils }
10129: function IsNumeric(var S : String; var X : Float) : Boolean; external 'dmath';
10130: { Test if a string represents a number and returns it in X }
10131: function ReadNumFromEdit(Edit : TEdit) : Float; external 'dmath';
10132: { Reads a floating point number from an Edit control }
10133: procedure WriteNumToFile(var F : Text; X : Float); external 'dmath';
10134: { Writes a floating point number in a text file }
10135: {$ENDIF}
10136: { -----
10137:   BGI / Delphi graphics
10138:   ----- }
10139: function InitGraphics
10140: {$IFDEF DELPHI}
10141: (Width, Height : Integer) : Boolean;
10142: {$ELSE}

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10143: (Pilot, Mode : Integer; BGIPath : String) : Boolean; {$ENDIF} external 'dmath';
10144: { Enters graphic mode }
10145: procedure SetWindow({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10146:                           X1, X2, Y1,Y2 : Integer; GraphBorder:Boolean); external 'dmath';
10147: { Sets the graphic window }
10148: procedure SetOxScale(Scale           : TScale;
10149:                         OxMin, OxMax, OxStep : Float); external 'dmath';
10150: { Sets the scale on the Ox axis }
10151: procedure SetOyScale(Scale           : TScale;
10152:                         OyMin, OyMax, OyStep : Float); external 'dmath';
10153: { Sets the scale on the Oy axis }
10154: procedure GetOxScale(var Scale       : TScale;
10155:                         var OxMin, OxMax, OxStep : Float); external 'dmath';
10156: { Returns the scale on the Ox axis }
10157: procedure GetOyScale(var Scale       : TScale;
10158:                         var OyMin, OyMax, OyStep : Float); external 'dmath';
10159: { Returns the scale on the Oy axis }
10160: procedure SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10161: procedure SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10162: procedure SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10163: function GetGraphTitle : String; external 'dmath'; { Returns the title for the graph }
10164: function GetOxTitle : String; external 'dmath'; { Returns the title for the Ox axis }
10165: function GetOyTitle : String; external 'dmath'; { Returns the title for the Oy axis }
10166: {$IFNDEF DELPHI}
10167: procedure SetTitleFont(FontIndex, Width, Height : Integer); external 'dmath';
10168: { Sets the font for the main graph title }
10169: procedure SetOxFont(FontIndex, Width, Height : Integer); external 'dmath';
10170: { Sets the font for the Ox axis (title and labels) }
10171: procedure SetOyFont(FontIndex, Width, Height : Integer); external 'dmath';
10172: { Sets the font for the Oy axis (title and labels) }
10173: procedure SetLgdFont(FontIndex, Width, Height : Integer); external 'dmath';
10174: { Sets the font for the legends }
10175: procedure SetClipping(Clip : Boolean); external 'dmath';
10176: { Determines whether drawings are clipped at the current viewport
10177:   boundaries, according to the value of the Boolean parameter Clip }
10178: {$ENDIF}
10179: procedure PlotOxAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10180: { Plots the horizontal axis }
10181: procedure PlotOyAxis({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10182: { Plots the vertical axis }
10183: procedure PlotGrid({$IFDEF DELPHI}Canvas:TCanvas;{$ENDIF} Grid:TGrid); external 'dmath';
10184: { Plots a grid on the graph }
10185: procedure WriteGraphTitle({$IFDEF DELPHI}(Canvas : TCanvas){$ENDIF}; external 'dmath';
10186: { Writes the title of the graph }
10187: procedure SetMaxCurv(NCurv : Byte); external 'dmath';
10188: { Sets the maximum number of curves and re-initializes their parameters }
10189: procedure SetPointParam
10190: {$IFDEF DELPHI}
10191: (CurvIndex, Symbol, Size : Integer; Color : TColor);
10192: {$ELSE}
10193: (CurvIndex, Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10194: { Sets the point parameters for curve # CurvIndex }
10195: procedure SetLineParam
10196: {$IFDEF DELPHI}
10197: (CurvIndex : Integer; Style : TPenStyle; Width : Integer; Color : TColor);
10198: {$ELSE}
10199: (CurvIndex, Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10200: { Sets the line parameters for curve # CurvIndex }
10201: procedure SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10202: { Sets the legend for curve # CurvIndex }
10203: procedure SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10204: { Sets the step for curve # CurvIndex }
10205: function GetMaxCurv : Byte; external 'dmath'; { Returns the maximum number of curves }
10206: procedure GetPointParam
10207: {$IFDEF DELPHI}
10208: (CurvIndex : Integer; var Symbol, Size : Integer; var Color : TColor);
10209: {$ELSE}
10210: (CurvIndex : Integer; var Symbol, Size, Color : Integer); {$ENDIF} external 'dmath';
10211: { Returns the point parameters for curve # CurvIndex }
10212: procedure GetLineParam
10213: {$IFDEF DELPHI}
10214: (CurvIndex : Integer; var Style : TPenStyle; var Width : Integer; var Color : TColor);
10215: {$ELSE}
10216: (CurvIndex : Integer; var Style, Width, Color : Integer); {$ENDIF} external 'dmath';
10217: { Returns the line parameters for curve # CurvIndex }
10218: function GetCurvLegend(CurvIndex : Integer) : String; external 'dmath';
10219: { Returns the legend for curve # CurvIndex }
10220: function GetCurvStep(CurvIndex : Integer) : Integer; external 'dmath';
10221: { Returns the step for curve # CurvIndex }
10222: {$IFDEF DELPHI}
10223: procedure PlotPoint(Canvas      : TCanvas;
10224:                         X, Y      : Float; CurvIndex : Integer); external 'dmath';
10225: {$ELSE}
10226: procedure PlotPoint(Xp, Yp, CurvIndex : Integer); external 'dmath';
10227: {$ENDIF}
10228: { Plots a point on the screen }
10229: procedure PlotCurve({$IFDEF DELPHI}(Canvas : TCanvas;{$ENDIF}
10230:                         X, Y          : TVector;
10231:                         Lb, Ub, CurvIndex : Integer); external 'dmath';

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10232: { Plots a curve }
10233: procedure PlotCurveWithErrorBars({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10234:                               X, Y, S : TVector;
10235:                               Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10236: { Plots a curve with error bars }
10237: procedure PlotFunc({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10238:                       Func : TFunc;
10239:                       Xmin, Xmax : Float;
10240:                       {$IFDEF DELPHI}Npt : Integer;{$ENDIF}
10241:                       CurvIndex : Integer); external 'dmath';
10242: { Plots a function }
10243: procedure WriteLegend({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10244:                         NCurv : Integer;
10245:                         ShowPoints, ShowLines : Boolean); external 'dmath';
10246: { Writes the legends for the plotted curves }
10247: procedure ConRec({$IFDEF DELPHI}Canvas : TCanvas;{$ENDIF}
10248:                      Nx, Ny, Nc : Integer;
10249:                      X, Y, Z : TVector;
10250:                      F : TMatrix); external 'dmath';
10251: { Contour plot }
10252: function Xpixel(X : Float) : Integer; external 'dmath'; { Converts user abscissa X to screen coordinate }
10253: function Ypixel(Y : Float) : Integer; external 'dmath'; { Converts user ordinate Y to screen coordinate }
10254: function Xuser(X : Integer) : Float; external 'dmath'; { Converts screen coordinate X to user abscissa }
10255: function Yuser(Y : Integer) : Float; external 'dmath'; { Converts screen coordinate Y to user ordinate }
10256: {$IFNDEF DELPHI}
10257: procedure LeaveGraphics; external 'dmath';
10258: { Quits graphic mode }
10259: {$ENDIF}
10260: { -----
10261:   LaTeX graphics
10262:   ----- }
10263: function TeX_InitGraphics(FileName : String; PgWidth, PgHeight : Integer;
10264:                             Header : Boolean); external 'dmath';
10265: { Initializes the LaTeX file }
10266: procedure TeX_SetWindow(Xl, X2, Yl, Y2 : Integer; GraphBorder : Boolean); external 'dmath';
10267: { Sets the graphic window }
10268: procedure TeX_LeaveGraphics(Footer : Boolean); external 'dmath'; { Close the LaTeX file }
10269: procedure TeX_SetOxScale(Scale : TScale; OxMin, OxMax, OxStep : Float); external 'dmath';
10270: { Sets the scale on the Ox axis }
10271: procedure TeX_SetOyScale(Scale : TScale; OyMin, OyMax, OyStep : Float); external 'dmath';
10272: { Sets the scale on the Oy axis }
10273: procedure TeX_SetGraphTitle>Title : String); external 'dmath'; { Sets the title for the graph }
10274: procedure TeX_SetOxTitle>Title : String); external 'dmath'; { Sets the title for the Ox axis }
10275: procedure TeX_SetOyTitle>Title : String); external 'dmath'; { Sets the title for the Oy axis }
10276: procedure TeX_PlotOxAxis; external 'dmath'; { Plots the horizontal axis }
10277: procedure TeX_PlotOyAxis; external 'dmath'; { Plots the vertical axis }
10278: procedure TeX_PlotGrid(Grid : TGrid); external 'dmath'; { Plots a grid on the graph }
10279: procedure TeX_WriteGraphTitle; external 'dmath'; Writes the title of the graph
10280: procedure TeX_SetMaxCurv(NCurv : Byte); external 'dmath';
10281: { Sets the maximum number of curves and re-initializes their parameters }
10282: procedure TeX_SetPointParam(CurvIndex, Symbol, Size : Integer); external 'dmath';
10283: { Sets the point parameters for curve # CurvIndex }
10284: procedure TeX_SetLineParam(CurvIndex, Style : Integer;
10285:                             Width : Float; Smooth : Boolean); external 'dmath';
10286: { Sets the line parameters for curve # CurvIndex }
10287: procedure TeX_SetCurvLegend(CurvIndex : Integer; Legend : String); external 'dmath';
10288: { Sets the legend for curve # CurvIndex }
10289: procedure TeX_SetCurvStep(CurvIndex, Step : Integer); external 'dmath';
10290: { Sets the step for curve # CurvIndex }
10291: procedure TeX_PlotCurve(X, Y : TVector; Lb, Ub, CurvIndex : Integer); external 'dmath';
10292: { Plots a curve }
10293: procedure TeX_PlotCurveWithErrorBars(X, Y, S : TVector;
10294:                                         Ns, Lb, Ub, CurvIndex : Integer); external 'dmath';
10295: { Plots a curve with error bars }
10296: procedure TeX_PlotFunc(Func : TFunc; X1, X2 : Float;
10297:                          Npt : Integer; CurvIndex : Integer); external 'dmath';
10298: { Plots a function }
10299: procedure TeX_WriteLegend(NCurv : Integer; ShowPoints, ShowLines : Boolean); external 'dmath';
10300: { Writes the legends for the plotted curves }
10301: procedure TeX_ConRec(Nx, Ny, Nc : Integer; X, Y, Z : TVector; F : TMatrix); external 'dmath';
10302: { Contour plot }
10303: function Xcm(X : Float) : Float; external 'dmath'; { Converts user coordinate X to cm }
10304: function Ycm(Y : Float) : Float; external 'dmath'; { Converts user coordinate Y to cm }
10305:
10306: //*****unit uPSI_SynPdf;
10307: Function RawUTF8ToPDFString( const Value : RawUTF8 ) : PDFString
10308: Function _DateToString( ADate : TDateTime ) : TPdfDate
10309: Function _PDFDateToDate( const AText : TPdfDate ) : TDateTime
10310: Function PdfRect( Left, Top, Right, Bottom : Single ) : TPdfRect;
10311: Function PdfRect1( const Box : TPdfBox ) : TPdfRect;
10312: Function PdfBox( Left, Top, Width, Height : Single ) : TPdfBox
10313: //Function _GetCharCount( Text : PAnsiChar ) : integer
10314: //Procedure L2R( W : PWideChar; L : integer )
10315: Function PdfCoord( MM : single ) : integer
10316: Function CurrentPrinterPageSize : TPDFPaperSize
10317: Function CurrentPrinterRes : TPoint
10318: Procedure GDICommentBookmark( MetaHandle : HDC; const aBookmarkName : RawUTF8 )
10319: Procedure GDICommentOutline( MetaHandle : HDC; const aTitle : RawUTF8; aLevel : Integer )
10320: Procedure GDICommentLink( MetaHandle : HDC; const aBookmarkName : RawUTF8; const aRect : TRect )

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10321: Const('Usp10','String 'usp10.dll
10322: AddTypeS('TScriptState_enum', '( r0, r1, r2, r3, r4, fOverrideDirection, fInhibitSymSwap,
10323:   'fCharShape, fDigitSubstitute,fInhibitLigate,fDisplayZWG, fArabicNumContext, fGcpClusters )
10324: AddTypeS('TScriptState_set', 'set of TScriptState_enum
10325: //*****=====
10326:
10327: procedure SIRegister_PMrand(CL: TPSPascalCompiler); //ParkMiller
10328: begin
10329:   Procedure PMrandomize( I : word)
10330:   Function PMrandom : longint
10331:   Function Rrand : extended
10332:   Function Irand( N : word) : word
10333:   Function Brand( P : extended) : boolean
10334:   Function Nrand : extended
10335: end;
10336:
10337: procedure SIRegister_Spring_Cryptography_Utils(CL: TPSPascalCompiler);
10338: begin
10339:   Function Endian( x : LongWord) : LongWord
10340:   Function Endian64( x : Int64) : Int64
10341:   Function spRol( x : LongWord; y : Byte) : LongWord
10342:   Function spRor( x : LongWord; y : Byte) : LongWord
10343:   Function Ror64( x : Int64; y : Byte) : Int64
10344: end;
10345:
10346: procedure SIRegister_MapReader(CL: TPSPascalCompiler);
10347: begin
10348:   Procedure ClearModules
10349:   Procedure ReadMapFile( Fname : string)
10350:   Function AddressInfo( Address : dword) : string
10351: end;
10352:
10353: procedure SIRegister_LibTar(CL: TPSPascalCompiler);
10354: begin
10355:   TTarPermission', '( tpReadByOwner, tpWriteByOwner, tpExecuteByOwner'
10356:   +'ner, tpReadByGroup, tpWriteByGroup, tpExecuteByGroup, tpReadByOther, tpWriteByOther )
10357:   +'teByOther, tpExecuteByOther )
10358: TTarPermissions', 'set of TTarPermission
10359: TFileType', '( ftNormal, ftLink, ftSymbolicLink, ftCharacter, ft'
10360:   +'Block, ftDirectory, ftFifo, ftContiguous, ftDumpDir, ftMultiVolume, ftVolumeHeader,
10361: TTarMode', '( tmSetUid, tmSetGid, tmSaveText )
10362: TTarModes', 'set of TTarMode
10363: TTarDirRec', 'record Name : STRING; Size : INT64; DateTime : TDA'
10364:   +'teTime; Permissions : TTarPermissions; FileType : TFileType; LinkName : ST'
10365:   +'RING; UID : INTEGER; GID : INTEGER; UserName : STRING; GroupName : STRING; '
10366:   +'ChecksumOK : BOOLEAN; Mode : TTarModes; Magic : STRING; MajorDevNo : INTE'
10367:   +'GER; MinorDevNo : INTEGER; FilePos : INT64; end
10368: SIRegister_TTarArchive(CL);
10369: SIRegister_TTarWriter(CL);
10370: Function PermissionString( Permissions : TTarPermissions) : STRING
10371: Function ConvertFilename( Filename : STRING) : STRING
10372: Function FileTimeGMT( FileName : STRING) : TDateTime;
10373: Function FileTimeGMT1( SearchRec : TSearchRec) : TDateTime;
10374: Procedure ClearDirRec( var DirRec : TTarDirRec)
10375: end;
10376:
10377:
10378: //*****=====
10379: procedure SIRegister_TlHelp32(CL: TPSPascalCompiler);
10380: begin
10381:   Const('MAX_MODULE_NAME32','LongInt'( 255);
10382:   Function CreateToolhelp32Snapshot( dwFlags, th32ProcessID : DWORD) : THandle
10383:   Const('TH32CS_SNAPHEAPLIST','LongWord( $00000001);
10384:   Const('TH32CS_SNAPPROCESS','LongWord').SetUInt( $00000002);
10385:   Const('TH32CS_SNAPTHREAD','LongWord').SetUInt( $00000004);
10386:   Const('TH32CS_SNAPMODULE','LongWord').SetUInt( $00000008);
10387:   Const('TH32CS_INHERIT','LongWord').SetUInt( $80000000);
10388:   tagHEAPLIST32', 'record dwSize:DWORD;th32ProcessID:DWORD;th32HeapID:DWORD;dwFlags:DWORD;end';
10389:   AddTypeS('HEAPLIST32', 'tagHEAPLIST32
10390:   AddTypes('TheapList32', 'tagHEAPLIST32
10391:   Const('HF32_DEFAULT','LongInt'( 1);
10392:   Const('HF32_SHARED','LongInt'( 2);
10393:   Function Heap32ListFirst( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10394:   Function Heap32ListNext( hSnapshot : THandle; var lphl : THeapList32) : BOOL
10395:   AddTypeS('tagHEAPENTRY32', 'record dwSize : DWORD; hHandle : THandle; dwAdr'
10396:     +'dress : DWORD; dwBlockSize : DWORD; dwFlags : DWORD; dwLockCount : DWORD; '
10397:     +'dwResvd : DWORD; th32ProcessID : DWORD; th32HeapID : DWORD; end
10398:   AddTypeS('HEAPENTRY32', 'tagHEAPENTRY32
10399:   AddTypeS('THeapEntry32', 'tagHEAPENTRY32
10400:   Const('LF32_FIXED','LongWord').SetUInt( $00000001);
10401:   Const('LF32_FREE','LongWord').SetUInt( $00000002);
10402:   Const('LF32_MOVEABLE','LongWord').SetUInt( $00000004);
10403:   Function Heap32First( var lphe : THeapEntry32; th32ProcessID, th32HeapID : DWORD) : BOOL
10404:   Function Heap32Next( var lphe : THeapEntry32) : BOOL
10405:   DWORD; var lpNumberOfBytesRead : DWORD) : BOOL
10406:   AddTypeS('tagTHREADENTRY32', 'record dwSize : DWORD; cntUsage : DWORD; th3'
10407:     +'2ThreadID : DWORD; th32OwnerProcessID : DWORD; tpBasePri : Longint; tpDelt'
10408:     +'aPri : Longint; dwFlags : DWORD; end
10409:   AddTypeS('THREADENTRY32', 'tagTHREADENTRY32

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10410: AddTypeS('TThreadEntry32', 'tagTHREADENTRY32'
10411: Function Thread32First( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10412: Function Thread32Next( hSnapshot : THandle; var lppe : TThreadEntry32 ) : BOOL
10413: end;
10414: Const ('EW_RESTARTWINDOWS','LongWord').SetUInt( $0042 );
10415: Const ('EW_REBOOTSYSTEM','LongWord( $0043 );
10416: Const ('EW_EXITANDEXECAPP','LongWord( $0044 );
10417: Const ('ENDSESSION_LOGOFF','LongWord').SetUInt( DWORD ( $80000000 ) );
10418: Const ('EWX_LOGOFF','LongInt'( 0 );
10419: Const ('EWX_SHUTDOWN','LongInt'( 1 );
10420: Const ('EWX_REBOOT','LongInt'( 2 );
10421: Const ('EWX_FORCE','LongInt'( 4 );
10422: Const ('EWX_POWEROFF','LongInt'( 8 );
10423: Const ('EWX_FORCEIFHUNG','LongWord').SetUInt( $10 );
10424: Function GET_APPCOMMAND_LPARAM( const lParam : LongInt ) : Shortint
10425: Function GET_DEVICE_LPARAM( const lParam : LongInt ) : Word
10426: Function GET_MOUSEKEY_LPARAM( const lParam : LongInt ) : Word
10427: Function GET_FLAGS_LPARAM( const lParam : LongInt ) : Word
10428: Function GET_KEYSTATE_LPARAM( const lParam : LongInt ) : Word
10429: Function GetWindowWord( hWnd : HWND; nIndex : Integer ) : Word
10430: Function SetWindowWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10431: Function GetWindowLong( hWnd : HWND; nIndex : Integer ) : Longint
10432: Function SetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
10433: Function GetClassWord( hWnd : HWND; nIndex : Integer ) : Word
10434: Function SetClassWord( hWnd : HWND; nIndex : Integer; wNewWord : Word ) : Word
10435: Function GetClassLong( hWnd : HWND; nIndex : Integer ) : DWORD
10436: Function SetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
10437: Function GetDesktopWindow : HWND
10438: Function GetParent( hWnd : HWND ) : HWND
10439: Function SetParent( hWndChild, hWndNewParent : HWND ) : HWND
10440: Function GetTopWindow( hWnd : HWND ) : HWND
10441: Function GetNextWindow( hWnd : HWND; uCmd : UINT ) : HWND
10442: Function GetWindow( hWnd : HWND; uCmd : UINT ) : HWND
10443: //Delphi DFM
10444: Function LoadDFMFile2Strings(const AFile:string; AStrings:TStrings; var WasText:boolean):integer
10445: Function SaveStrings2DFMFile( AStrings : TStrings; const AFile : string ) : integer
10446: procedure GetHighlighters(AOwner: TComponent; AHighlighters: TStringList; AppendToList: boolean);
10447: function GetHighlightersFilter(AHighlighters: TStringList): string;
10448: function GetHighlighterFromfileExt(AHighlighters: TStringList; Extension: string): TSynCustomHighlighter;
10449: Function ShowOwnedPopups( hWnd : HWND; fShow : BOOL ) : BOOL
10450: Function OpenIcon( hWnd : HWND ) : BOOL
10451: Function CloseWindow( hWnd : HWND ) : BOOL
10452: Function MoveWindow( hWnd : HWND; X, Y, nWidth, nHeight : Integer; bRepaint : BOOL ) : BOOL
10453: Function SetWindowPos(hWnd:HWND;hWndInsertAfter:HWND; X,Y,cx,cy : Integer; uFlags : UInt) : BOOL
10454: Function IsWindowVisible( hWnd : HWND ) : BOOL
10455: Function IsIconic( hWnd : HWND ) : BOOL
10456: Function AnyPopup : BOOL
10457: Function BringWindowToTop( hWnd : HWND ) : BOOL
10458: Function IsZoomed( hWnd : HWND ) : BOOL
10459: Function IsWindow( hWnd : HWND ) : BOOL
10460: Function IsMenu( hMenu : HMENU ) : BOOL
10461: Function IsChild( hWndParent, hWnd : HWND ) : BOOL
10462: Function DestroyWindow( hWnd : HWND ) : BOOL
10463: Function ShowWindow( hWnd : HWND; nCmdShow : Integer ) : BOOL
10464: Function AnimateWindow( hWnd : HWND; dwTime : DWORD; dwFlags : DWORD ) : BOOL
10465: Function ShowWindowAsync( hWnd : HWND; nCmdShow : Integer ) : BOOL
10466: Function FlashWindow( hWnd : HWND; bInvert : BOOL ) : BOOL
10467: Function IsWindowUnicode( hWnd : HWND ) : BOOL
10468: Function EnableWindow( hWnd : HWND; bEnable : BOOL ) : BOOL
10469: Function IsWindowEnabled( hWnd : HWND ) : BOOL
10470:
10471: procedure SIRegister_IDECmdLine(CL: TPSPascalCompiler);
10472: begin
10473: const ('ShowSetupDialogOptLong','String '--setup
10474: PrimaryConfPathOptLong','String '--primary-config-path=
10475: PrimaryConfPathOptShort','String '--pcp=
10476: SecondaryConfPathOptLong','String '--secondary-config-path=
10477: SecondaryConfPathOptShort','String '--scp=
10478: NoSplashScreenOptLong','String '--no-splash-screen
10479: NoSplashScreenOptShort','String '--nsc
10480: StartedByStartLazarusOpt','String '--started-by-startlazarus
10481: SkipLastProjectOpt','String '--skip-last-project
10482: DebugLogOpt','String '--debug-log=
10483: DebugLogOptEnable,'String '--debug-enable=
10484: LanguageOpt','String '--language=
10485: LazarusDirOpt','String '--lazarusdir=
10486: Procedure ParseCommandLine(aCmdLineParams:TStrings;out IDEPid:Int;out ShowSplashScreen:boolean);
10487: Function GetCommandLineParameters( aCmdLineParams : TStrings; isStartLazarus:Boolean ) : string
10488: Function ExtractPrimaryConfigPath( aCmdLineParams : TStrings ) : string
10489: Function IsHelpRequested : Boolean
10490: Function IsVersionRequested : boolean
10491: Function GetLanguageSpecified : string
10492: Function ParamIsOption( ParamIndex : integer; const Option : string ) : boolean
10493: Function ParamIsOptionPlusValue(ParamIndex:integer;const Option:string;out AValue:string):bool;
10494: Procedure ParseNoGuiCmdLineParams
10495: Function ExtractCmdLineFilenames : TStrings
10496: end;
10497:
10498:

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10499: procedure SIRegister_LazFileUtils(CL: TPSCompiler);
10500: begin
10501:   Function CompareFilenames( const Filename1, Filename2 : string) : integer
10502:   Function CompareFilenamesIgnoreCase( const Filename1, Filename2 : string) : integer
10503:   Function CompareFileExt( const Filename, Ext : string; CaseSensitive : boolean) : integer;
10504:   Function CompareFileExt1( const Filename, Ext : string) : integer;
10505:   Function CompareFilenameStarts( const Filename1, Filename2 : string) : integer
10506:   Function CompareFilenames(Filename1:PChar;Len1:integer; Filename2:PChar;Len2:integer):integer
10507:   Function CompareFilenamesP( const Filename1, Filename2 : PChar; IgnoreCase : boolean) : integer
10508:   Function DirPathExists( DirectoryName : string) : boolean
10509:   Function DirectoryIsWritable( const DirectoryName : string) : boolean
10510:   Function ExtractFileNameOnly( const AFilename : string) : string
10511:   Function FilenameIsAbsolute( const TheFilename : string) : boolean
10512:   Function FilenameIsWinAbsolute( const TheFilename : string) : boolean
10513:   Function FilenameIsUnixAbsolute( const TheFilename : string) : boolean
10514:   Function ForceDirectory( DirectoryName : string) : boolean
10515:   Procedure CheckIfFileIsExecutable( const AFilename : string)
10516:   Procedure CheckIfFileIsSymlink( const AFilename : string)
10517:   Function FileIsText( const AFilename : string) : boolean
10518:   Function FileIsText2( const AFilename : string; out FileReadable : boolean) : boolean
10519:   Function FilenameIsTrimmed( const TheFilename : string) : boolean
10520:   Function FilenameIsTrimmed2( StartPos : PChar; NameLen : integer) : boolean
10521:   Function TrimFilename( const AFilename : string) : string
10522:   Function ResolveDots( const AFilename : string) : string
10523:   Procedure ForcePathDelims( var FileName : string)
10524:   Function GetForcedPathDelims( const FileName : string) : String
10525:   Function CleanAndExpandfilename( const Filename : string) : string
10526:   Function CleanAndExpandDirectory( const Filename : string) : string
10527:   Function TrimAndExpandfilename( const Filename : string; const BaseDir : string) : string
10528:   Function TrimAndExpandDirectory( const Filename : string; const BaseDir : string) : string
10529:   Function TryCreateRelativePath(const Dest,Source:String; UsePointDirectory:bool;
  AlwaysRequireSharedBaseFolder : Boolean; out RelPath : String) : Boolean
10530:   Function CreateRelativePath( const Filename,BaseDirectory:string; UsePointDirectory:boolean;
  AlwaysRequireSharedBaseFolder: Boolean) : string
10531:   Function FileIsInPath( const Filename, Path : string) : boolean
10532:   Function AppendPathDelim( const Path : string) : string
10533:   Function ChompPathDelim( const Path : string) : string
10534:   Function CreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string) : string
10535:   Function CreateRelativeSearchPath( const SearchPath, BaseDirectory : string) : string
10536:   Function MinimizeSearchPath( const SearchPath : string) : string
10537:   Function FindPathInSearchPath(APath:PChar;APathLen:int;SearchPath:PChar;SearchPathLen:int):PChar;
  (*Function FileExistsUTF8( const Filename : string) : boolean
10538:   Function FileAgeUTF8( const FileName : string) : Longint
10540:   Function DirectoryExistsUTF8( const Directory : string) : Boolean
10541:   Function ExpandFileNameUTF8( const FileName : string; BaseDir : string) : string
10542:   Function FindFirstUTF8(const Path:string; Attr: Longint; out Rslt : TSearchRec) : Longint
10543:   Function FindNextUTF8( var Rslt : TSearchRec) : Longint
10544:   Procedure FindCloseUTF8( var F : TSearchrec)
10545:   Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
10546:   Function FileGetAttrUTF8( const FileName : String) : Longint
10547:   Function FileSetAttrUTF8( const FileName : String; Attr : longint) : Longint
10548:   Function DeleteFileUTF8( const FileName : String) : Boolean
10549:   Function RenameFileUTF8( const OldName, NewName : String) : Boolean
10550:   Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
10551:   Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
10552:   Function GetCurrentDirUTF8 : String
10553:   Function SetCurrentDirUTF8( const NewDir : String) : Boolean
10554:   Function CreateDirUTF8( const NewDir : String) : Boolean
10555:   Function RemoveDirUTF8( const Dir : String) : Boolean
10556:   Function ForceDirectoriesUTF8( const Dir : string) : Boolean
10557:   Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
10558:   Function FileCreateUTF8( const FileName : string) : THandle;
10559:   Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle,
10560:   Function FileCreateUtf82( const FileName : String; ShareMode : Integer; Rights : Cardinal) : THandle,
10561:   Function FileSizeUtf8( const Filename : string) : int64
10562:   Function GetFileDescription( const AFilename : string) : string
10563:   Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
10564:   Function GetAppConfigFileUTF8( Global : Boolean; SubDir : boolean; CreateDir : boolean) : string
10565:   Function GetTempFileNameUTF8( const Dir, Prefix : String) : String*)
10566:   Function IsUNCPath( const Path : String) : Boolean
10567:   Function ExtractUNCVolume( const Path : String) : String
10568:   Function ExtractFileRoot( FileName : String) : String
10569:   Function GetDarwinSystemFilename( Filename : string) : string
10570:   Procedure SplitCmdlineParams( const Params : string; ParamList : TStrings; ReadBackslash : boolean)
10571:   Function StrToCmdlineParam( const Param : string) : string
10572:   Function MergeCmdlineParams( ParamList : TStrings) : string
10573:   Procedure InvalidateFileStateCache( const Filename : string)
10574:   Function FindAllFiles(const SearchPath:String;SearchMask:String;SearchSubDirs:Boolean):TStringList;
10575:   Function FindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean) : TStringList
10576:   Function ReadFileToString( const Filename : string) : string
10577: type
10578:   TCopyFileFlag = ( cffOverwriteFile,
10579:     cffCreateDestDirectory, cffPreserveTime );
10580:   TCopyFileFlags = set of TCopyFileFlag;*
10581:   TCopyFileFlag', '(cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime)
10582:   TCopyFileFlags', 'set of TCopyFileFlag
10583:   Function CopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
10584: end;
10585:

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10586: procedure SIRegister_lazMasks(CL: TPSCompiler);
10587: begin
10588:   TMaskCharType', '( mcChar, mcCharSet, mcAnyChar, mcAnyText )
10589:   SIRegister_TMask(CL);
10590:   SIRegister_TParseStringList(CL);
10591:   SIRegister_TMaskList(CL);
10592:   Function MatchesMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean
10593:   Function MatchesWindowsMask( const FileName, Mask : String; const CaseSensitive : Boolean ) : Boolean;
10594:   Function MatchesMaskList(const FileName,Mask:String;Separator:Char;const CaseSensitive:Boolean):Boolean;
10595:   Function MatchesWindowsMaskList(const FileName,Mask:String;Separat:Char;const CaseSensitive:Boolean):Boolean;
10596: end;
10597:
10598: procedure SIRegister_JvShellHook(CL: TPSCompiler);
10599: begin
10600:   //PShellHookInfo', '^TShellHookInfo // will not work
10601:   TShellHookInfo', 'record hwnd : THandle; rc : TRect; end
10602:   SHELLHOOKINFO', 'TShellHookInfo
10603:   LPSETHOOKINFO', 'PShellHookInfo
10604:   TJvShellHookEvent', 'Procedure ( Sender : TObject; var Msg : TMessage)
10605:   SIRegister_TJvShellHook(CL);
10606:   Function InitJvShellHooks : Boolean
10607:   Procedure UnInitJvShellHooks
10608: end;
10609:
10610: procedure SIRegister_JvExControls(CL: TPSCompiler);
10611: begin
10612:   TDlgCode', '( dcWantAllKeys, dcWantArrows, dcWantChars, dcButton'
10613:   '+', dcHasSelSel, dcWantTab, dcNative )
10614:   TDlgCodes', 'set of TDlgCode
10615:   'dcWantMessage',' dcWantAllKeys);
10616:   SIRegister_IJvExControl(CL);
10617:   SIRegister_IJvDenySubClassing(CL);
10618:   SIRegister_TStructPtrMessage(CL);
10619:   Procedure SetDotNetFrameColors( FocusedColor, UnfocusedColor : TColor)
10620:   Procedure DrawDotNetBar( Control : TWinControl; AColor : TColor; InControl : Boolean);
10621:   Procedure DrawDotNetBar( DC : HDC; R : TRect; AColor : TColor; UseFocusedColor : Boolean);
10622:   Procedure HandleDotNetBarHighlighting(Control:TWinControl;const Msg:TMessage;MouseOver:Boolean;Color:TColor);
10623:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : Longint ) : TMessage;
10624:   Function CreateWMMessage( Msg : Integer; WParam : Integer; LParam : TControl ) : TMessage;
10625:   Function SmallPointToLong( const Pt : TSmallPoint ) : Longint
10626:   Function ShiftStateToKeyData( Shift : TShiftState ) : Longint
10627:   Function GetFocusedControl( AControl : TControl ) : TWinControl
10628:   Function DlgcToDlgCodes( Value : Longint ) : TDlgCodes
10629:   Function DlgCodesToDlgc( Value : TDlgCodes ) : Longint
10630:   Procedure GetHintColor( var HintInfo : THintInfo; AControl : TControl; HintColor : TColor)
10631:   Function DispatchIsDesignMsg( Control : TControl; var Msg : TMessage ) : Boolean
10632:   SIRegister_TJvExControl(CL);
10633:   SIRegister_TJvExWinControl(CL);
10634:   SIRegister_TJvExCustomControl(CL);
10635:   SIRegister_TJvExGraphicControl(CL);
10636:   SIRegister_TJvExHintWindow(CL);
10637:   SIRegister_TJvExPubGraphicControl(CL);
10638: end;
10639:
10640: (*-----*)
10641: procedure SIRegister_EncDecd(CL: TPSCompiler);
10642: begin
10643:   Procedure EncodeStream( Input, Output : TStream)
10644:   Procedure DecodeStream( Input, Output : TStream)
10645:   Function EncodeString1( const Input : string) : string
10646:   Function DecodeString1( const Input : string) : string
10647: end;
10648:
10649: (*-----*)
10650: procedure SIRegister_SockAppReg(CL: TPSCompiler);
10651: begin
10652:   SIRegister_TWebAppRegInfo(CL);
10653:   SIRegister_TWebAppRegList(CL);
10654:   Procedure GetRegisteredWebApps( AList : TWebAppRegList)
10655:   Procedure RegisterWebApp( const AFileName, AProgID : string)
10656:   Procedure UnregisterWebApp( const AProgID : string)
10657:   Function FindRegisteredWebApp( const AProgID : string) : string
10658:   Function CreateRegistry( InitializeNewFile : Boolean) : TCustomIniFile
10659:   'sUDPPort','String 'UDPPort
10660: end;
10661:
10662: procedure SIRegister_PJEnvVars(CL: TPSCompiler);
10663: begin
10664:   // TStringDynArray', 'array of string
10665:   Function GetEnvVarValue( const VarName : string) : string
10666:   Function SetEnvVarValue( const VarName, VarValue : string) : Integer
10667:   Function DeleteEnvVar( const VarName : string) : Integer
10668:   Function CreateEnvBlock(const NewEnv:TStrings;const IncludeCurrent:Bool;const Buffer:string;const
BufSize:Int );
10669:   Function ExpandEnvVars( const Str : string) : string
10670:   Function GetAllEnvVars( const Vars : TStrings) : Integer
10671:   Procedure GetAllEnvVarNames( const Names : TStrings);
10672:   Function GetAllEnvVarNames1 : TStringDynArray;
10673:   Function EnvBlockSize : Integer

```

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

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

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10850: Function ZConvertRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10851: Function ZConvertAnsiToUTF8( const Src : AnsiString) : UTF8String
10852: Function ZConvertUTF8ToAnsi( const Src : UTF8String) : AnsiString
10853: Function ZConvertRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10854: Function ZConvertUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10855: Function ZConvertRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10856: Function ZConvertStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10857: Function ZConvertStringToRawWithAutoEncode( const Src: String; const StringCP, RawCP: Word) : RawByteString;
10858: Function ZConvertUTF8ToString( const Src : UTF8String; const StringCP : Word) : String
10859: Function ZConvertStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10860: Function ZConvertStringToUTF8WithAutoEncode( const Src : String; const StringCP: Word) : UTF8String
10861: Function ZConvertStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10862: Function ZConvertStringToAnsiWithAutoEncode( const Src : String; const StringCP: Word) : AnsiString
10863: Function ZConvertAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10864: Function ZConvertUnicodeToString( const Src : WideString; const StringCP : Word) : String
10865: Function ZConvertUnicodeToString_CPUTF8( const Src : WideString; const StringCP : Word) : String
10866: Function ZConvertStringToUnicode( const Src : String; const StringCP : Word) : WideString
10867: Function ZConvertString_CPUTF8ToUnicode( const Src : String; const StringCP : Word) : WideString
10868: Function ZConvertStringToUnicodeWithAutoEncode( const Src: String; const StringCP: Word) : WideString
10869: Function ZMoveAnsiToRaw( const Src : AnsiString; const RawCP : Word) : RawByteString
10870: Function ZMoveRawToAnsi( const Src : RawByteString; const RawCP : Word) : AnsiString
10871: Function ZMoveAnsiToUTF8( const Src : AnsiString) : UTF8String
10872: Function ZMoveUTF8ToAnsi( const Src : UTF8String) : AnsiString
10873: Function ZMoveRawToUTF8( const Src : RawByteString; const CP : Word) : UTF8String
10874: Function ZMoveUTF8ToRaw( const Src : UTF8String; const CP : Word) : RawByteString
10875: Function ZMoveStringToAnsi( const Src : String; const StringCP : Word) : AnsiString
10876: Function ZMoveAnsiToString( const Src : AnsiString; const StringCP : Word) : String
10877: Function ZMoveRawToString( const Src : RawByteString; const RawCP, StringCP : Word) : String
10878: Function ZMoveStringToRaw( const Src : String; const StringCP, RawCP : Word) : RawByteString
10879: Function ZMoveUTF8ToString( const Src : UTF8String; StringCP : Word) : String
10880: Function ZMoveStringToUTF8( const Src : String; const StringCP : Word) : UTF8String
10881: Function ZUnknownRawToUnicode( const S : RawByteString; const CP : Word) : WideString
10882: Function ZUnknownRawToUnicodeWithAutoEncode( const S : RawByteString; const CP : Word) : WideString
10883: Function ZUnicodeToUnknownRaw( const US : WideString; CP : Word) : RawByteString
10884: Function ZDefaultSystemCodePage : Word
10885: Function ZCompatibleCodePages( const CP1, CP2 : Word) : Boolean
10886:
10887:
10888: procedure SIRegister_BoldComUtils(CL: TPPSPascalCompiler);
10889: begin
10890:   'RPC_C_AUTHN_LEVEL_DEFAULT', 'LongInt'( 0);
10891:   ('RPC_C_AUTHN_LEVEL_NONE', 'LongInt'( 1);
10892:   ('RPC_C_AUTHN_LEVEL_CONNECT', 'LongInt'( 2);
10893:   ('RPC_C_AUTHN_LEVEL_CALL', 'LongInt'( 3);
10894:   ('RPC_C_AUTHN_LEVEL_PKT', 'LongInt'( 4);
10895:   ('RPC_C_AUTHN_LEVEL_PKT_INTEGRITY', 'LongInt'( 5);
10896:   ('RPC_C_AUTHN_LEVEL_PKT_PRIVACY', 'LongInt'( 6);
10897:   {('alDefault', '1 RPC_C_AUTHN_LEVEL_DEFAULT);
10898:   ('alNone', '2 RPC_C_AUTHN_LEVEL_NONE);
10899:   ('alConnect', '3 RPC_C_AUTHN_LEVEL_CONNECT);
10900:   ('alCall', '4 RPC_C_AUTHN_LEVEL_CALL);
10901:   ('alPacket', '5 RPC_C_AUTHN_LEVEL_PKT);
10902:   ('alPacketIntegrity', '6 RPC_C_AUTHN_LEVEL_PKT_INTEGRITY);
10903:   ('alPacketPrivacy', '7 RPC_C_AUTHN_LEVEL_PKT_PRIVACY);}
10904:   ('RPC_C_IMP_LEVEL_DEFAULT', 'LongInt'( 0);
10905:   ('RPC_C_IMP_LEVEL_ANONYMOUS', 'LongInt'( 1);
10906:   ('RPC_C_IMP_LEVEL_IDENTIFY', 'LongInt'( 2);
10907:   ('RPC_C_IMP_LEVEL_IMPERSONATE', 'LongInt'( 3);
10908:   ('RPC_C_IMP_LEVEL_DELEGATE', 'LongInt'( 4);
10909:   {('ilDefault', '0 RPC_C_IMP_LEVEL_DEFAULT);
10910:   ('ilAnonymous', '1 RPC_C_IMP_LEVEL_ANONYMOUS);
10911:   ('ilIdentiry', '2 RPC_C_IMP_LEVEL_IDENTIFY);
10912:   ('ilImpersonate', '3 RPC_C_IMP_LEVEL_IMPERSONATE);
10913:   ('ilDelegate', '4 RPC_C_IMP_LEVEL_DELEGATE);}
10914:   ('EOAC_NONE', 'LongWord').SetUInt( $0);
10915:   ('EOAC_DEFAULT', 'LongWord').SetUInt( $800);
10916:   ('EOAC_MUTUAL_AUTH', 'LongWord').SetUInt( $1);
10917:   ('EOAC_STATIC_CLOAKING', 'LongWord').SetUInt( $20);
10918:   ('EOAC_DYNAMIC_CLOAKING', 'LongWord').SetUInt( $40);
10919:   ('EOAC_ANY_AUTHORITY', 'LongWord').SetUInt( $80);
10920:   ('RPC_C_AUTHN_WINNT', 'LongInt'( 10);
10921:   ('RPC_C_AUTHNZ_NONE', 'LongInt'( 0);
10922:   ('RPC_C_AUTHNZ_NAME', 'LongInt'( 1);
10923:   ('RPC_C_AUTHNZ_DCE', 'LongInt'( 2);
10924:   FindClass('TOBJECT'), 'EBoldCom
10925: Function BoldVariantIsType( V : OleVariant; TypeCode : Integer) : Boolean
10926: Function BoldMemoryToVariant( const Buffer, BufSize : Integer) : OleVariant
10927: Function BoldStreamToVariant( Stream : TStream) : OleVariant
10928: Function BoldStringsToVariant( Strings : TStrings) : OleVariant
10929: Function BoldVariantToMemory( V : OleVariant; var Buffer, BufSize : Integer) : Integer
10930: Function BoldVariantToStream( V : OleVariant; Stream : TStream) : Integer
10931: Function BoldVariantArrayOfStringToStrings( V : OleVariant; Strings : TStrings) : Integer
10932: Function BoldVariantIsNamedValues( V : OleVariant) : Boolean
10933: Function BoldCreateNamedValues(const Names:array of string;const Values:array of OleVariant):OleVariant;
10934: Function BoldGetNamedValue( Data : OleVariant; const Name : string) : OleVariant
10935: Procedure BoldSetNamedValue( Data : OleVariant; const Name : string; Value : OleVariant)
10936: Function BoldCreateGUID : TGUID
10937: Function BoldCreateComObject( const ClsId, IID : TGUID; out Obj : variant; out Res : HResult) : Boolean
10938: Function BoldCreateRemoteComObject(const HostName:string;const ClsId,IId:TGUID;out Obj:variant;out Res:HRes):Bool;

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10939: Procedure BoldInitializeComSecurity( AuthenticationLevel, ImpersonationLevel : longint )
10940: Procedure BoldSetSecurityForInterface(AuthenticationLevel,ImpersonationLevel:longint;Unk:IUnknown);
10941: end;
10942:
10943: (*-----*)
10944: procedure SIRегистер_BoldIsoDateTime(CL: TPSPPascalCompiler);
10945: begin
10946:   Function ParseISODate( s : string ) : TDateTime
10947:   Function ParseISODTime( s : string ) : TDateTime
10948:   Function ParseISOTime( str : string ) : TDateTime
10949: end;
10950:
10951: (*-----*)
10952: procedure SIRегистер_BoldGUIDUtils(CL: TPSPPascalCompiler);
10953: begin
10954:   Function BoldCreateGUIDAsString( StripBrackets : Boolean ) : string
10955:   Function BoldCreateGUIDWithBracketsAsString : string
10956: end;
10957:
10958: procedure SIRегистер_BoldFileHandler(CL: TPSPPascalCompiler);
10959: begin
10960:   FindClass('TOBJECT','TBoldFileHandler'
10961:   FindClass('TOBJECT','TBoldDiskFileHandler'
10962:   //TBoldfileHandlerClass', 'class of TBoldfileHandler
10963:   TBoldInitializeFileContents', 'Procedure ( StringList : TStringList )
10964:   SIRегистер_TBoldFileHandler(CL);
10965:   SIRегистер_TBoldDiskFileHandler(CL);
10966:   Procedure BoldCloseAllFilehandlers
10967:   Procedure BoldRemoveUnchangedFilesFromEditor
10968:   Function BoldFileHandlerList : TBoldObjectArray
10969:   Function BoldFileHandlerForFile(path,FileName:String; ModuleType:TBoldModuleType;ShowInEditor:Bool;
10970:   OnInitializeFileContents : TBoldInitializeFileContents) : TBoldFileHandler
10971: end;
10972: procedure SIRегистер_BoldWinINet(CL: TPSPPascalCompiler);
10973: begin
10974:   PCharArr', 'array of PChar
10975:   Function BoldInternetOpen(Agent:String;
10976:   AccessType:integer;Proxy:string;ProxyByPass:String;Flags:integer):ptr;
10977:   Function BoldInternetOpenUrl(iNet:Pointer;URL: string; Headers:String;Flags,Context:cardinal):Pointer
10978:   Function BoldInternetReadFile(hFile:Pointer;Buff:Ptr;NumbOfBytesToRead:Card;var
10979:   NumberOfBytesRead:Card):LongBool;
10980:   Function BoldInternetCloseHandle( HINet : Pointer ) : LongBool
10981:   Function BoldHttpQueryInfo( hRequest : Pointer; InfoLevel : Cardinal; Buffer : Pointer; BufferLength :
10982:   Cardinal; Reserved : Cardinal ) : LongBool
10983:   Function BoldInternetQueryDataAvailable( hFile : Pointer; var NumberOfBytesAvailable : Cardinal; flags :
10984:   Cardinal; Context : Cardinal ) : LongBool
10985:   Function BoldHttpOpenRequest(hConnect: Pointer; Verb, ObjectName, Version, Referrer : String; AcceptTypes
10986:   : PCharArr; Flags, Context : Cardinal ) : Pointer
10987:   Function BoldHttpSendRequest(hRequest:Ptr;Headers:string;Optional:Ptr;OptionalLength:Cardinal): LongBool
10988:   Function BoldInternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:Ptr):DWORD
10989:   Function BoldInternetAttemptConnect( dwReserved : DWORD ) : DWORD
10990:   Function BoldInternetConnect(hInet: HINTERNET;ServerName:string; nServerPort:INTERNET_PORT;
10991:   Username:string; Password : string; dwService : DWORD; dwFlags : DWORD; dwContext : DWORD):HINTERNET
10992:   Function BoldInternetCrackUrl(Url:PChar;UrlLength,dwFlags:DWORD;var lpUrlComponents:TURLComponents):BOOL;
10993: end;
10994:
10995: (*-----*)
10996: procedure SIRегистер_BoldQueryUserDlg(CL: TPSPPascalCompiler);
10997: begin
10998:   TBoldQueryResult', '( qrYesAll, qrYes, qrNo, qrNoAll )
10999:   SIRегистер_TfrmBoldQueryUser(CL);
11000:   Function QueryUser( const Title, Query : string ) : TBoldQueryResult
11001: end;
11002:
11003: (*-----*)
11004: procedure SIRегистер_BoldQueue(CL: TPSPPascalCompiler);
11005: begin
11006:   //('befIsInDisplayList',' BoldElementFlag0 );
11007:   //('befStronglyDependedOfPrioritized',' BoldElementFlag1 );
11008:   //('befFollowerSelected',' BoldElementFlag2 );
11009:   FindClass('TOBJECT','TBoldQueue
11010:   FindClass('TOBJECT','TBoldQueueable
11011:   TBoldQueueDisplayMode', '( dmDisplayOne, dmDisplayAll )
11012:   SIRегистер_TBoldQueueable(CL);
11013:   SIRегистер_TBoldQueue(CL);
11014:   Function BoldQueueFinalized : Boolean
11015:   Function BoldInstalledQueue : TBoldQueue
11016: end;
11017:
11018: procedure SIRегистер_BarcodE(CL: TPSPPascalCompiler);
11019: begin
11020:   const mmPerInch','Extended').setExtended( 25.4 );
11021:   TBarcodeType', '( bcCode_2_5_interleaved, bcCode_2_5_industrial,
11022:   +' bcCode_2_5_matrix, bcCode39, bcCode39Extended, bcCode128A, bcCode128B, bc'
11023:   +' Code128C, bcCode93, bcCode93Extended, bcCodeMSI, bcCodePostNet, bcCodeCoda'
11024:   +' bar, bcCodeEAN8, bcCodeEAN13, bcCodeUPC_A, bcCodeUPC_E0, bcCodeUPC_E1, bcC'
11025:   +'odeUPC_Supp2, bcCodeUPC_Supp5, bcCodeEAN128A, bcCodeEAN128B, bcCodeEAN128C
11026:   TBarcodeLineType', '( white, black, black_half )
11027:   TBarcodeOption', '( bcoNone, bcoCode, bcoTyp, bcoBoth )

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11021: TShowTextPosition', '(
11022:   stpTopLeft, stpTopRight, stpTopCenter, st'
11023:   +'pBottomLeft, stpBottomRight, stpBottomCenter )
11024: TCheckSumMethod', '( csmNone, csmModulo10 )
11025: SIRegister_TAsBarcode(CL);
11026: Function CheckSumModulo10( const data : string ) : string
11027: Function ConvertMmToPixelsX( const Value : Double ) : Integer
11028: Function ConvertMmToPixelsY( const Value : Double ) : Integer
11029: Function ConvertInchToPixelsX( const Value : Double ) : Integer
11030: Function ConvertInchToPixelsY( const Value : Double ) : Integer
11031: end;
11032: procedure SIRegister_Geometry(CL: TPPascalCompiler); //OpenGL
11033: begin
11034:   THomogeneousByteVector', 'array[0..3] of Byte
11035:   THomogeneousWordVector', 'array[0..3] of Word
11036:   THomogeneousIntVector', 'array[0..3] of Integer
11037:   THomogeneousFltVector', 'array[0..3] of single
11038:   THomogeneousDblVector', 'array[0..3] of double
11039:   THomogeneousExtVector', 'array[0..3] of extended
11040:   TAffineByteVector', 'array[0..2] of Byte
11041:   TAffineWordVector', 'array[0..2] of Word
11042:   TAffineIntVector', 'array[0..2] of Integer
11043:   TAffineFltVector', 'array[0..2] of single
11044:   TAffineDblVector', 'array[0..2] of double
11045:   TAffineExtVector', 'array[0..2] of extended
11046:   THomogeneousByteMatrix', 'array[0..3] of THomogeneousByteVector
11047:   THomogeneousWordMatrix', 'array[0..3] of THomogeneousWordVector
11048:   THomogeneousIntMatrix', 'array[0..3] of THomogeneousIntVector
11049:   THomogeneousFltMatrix', 'array[0..3] of THomogeneousFltVector
11050:   THomogeneousDblMatrix', 'array[0..3] of THomogeneousDblVector
11051:   THomogeneousExtMatrix', 'array[0..3] of THomogeneousExtVector
11052:   TAffineByteMatrix', 'array[0..2] of TAffineByteVector
11053:   TAffineWordMatrix', 'array[0..2] of TAffineWordVector
11054:   TAffineIntMatrix', 'array[0..2] of TAffineIntVector
11055:   TAffineFltMatrix', 'array[0..3] of TAffineFltVector
11056:   TAffineDblMatrix', 'array[0..3] of TAffineDblVector
11057:   TAffineExtMatrix', 'array[0..3] of TAffineExtVector
11058: TMatrix4b', 'THomogeneousByteMatrix
11059: TMatrix4w', 'THomogeneousWordMatrix
11060: TMatrix4i', 'THomogeneousIntMatrix
11061: TMatrix4f', 'THomogeneousFltMatrix
11062: TMatrix4d', 'THomogeneousDblMatrix
11063: TMatrix4e', 'THomogeneousExtMatrix
11064: TMatrix3b', 'TAffineByteMatrix
11065: TMatrix3w', 'TAffineWordMatrix
11066: TMatrix3i', 'TAffineIntMatrix
11067: TMatrix3f', 'TAffineFltMatrix
11068: TMatrix3d', 'TAffineDblMatrix
11069: TMatrix3e', 'TAffineExtMatrix
11070: //^TMatrix' , '^TMatrix // will not work
11071: TMatrixGL', 'THomogeneousFltMatrix
11072: THomogeneousMatrix', 'THomogeneousFltMatrix
11073: TAffineMatrix', 'TAffineFltMatrix
11074: TQuaternion', 'record Vector : TVector4f; end
11075: TRectangle', 'record Left : integer; Top : integer; Width : integer;
11076: + 'ger; Height : Integer; end
11077: TTransType', '(
11078:   ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
11079:   +'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
11080:   +', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )
11081: 'EPSILON', 'Extended').setExtended( 1E-100 );
11081: 'EPSILON2', 'Extended').setExtended( 1E-50 );
11082: Function VectorAddGL( V1, V2 : TVectorGL ) : TVectorGL
11083: Function VectorAffineAdd( V1, V2 : TAffineVector ) : TAffineVector
11084: Function VectorAffineCombine(V1,V2:TAffineVector; F1, F2 : Single) : TAffineVector
11085: Function VectorAffineDotProduct( V1, V2 : TAffineVector ) : Single
11086: Function VectorAffineLerp( V1, V2 : TAffineVector; t : Single ) : TAffineVector
11087: Function VectorAffineSubtract( V1, V2 : TAffineVector ) : TAffineVector
11088: Function VectorAngle( V1, V2 : TAffineVector ) : Single
11089: Function VectorCombine( V1, V2 : TVectorGL; F1, F2 : Single ) : TVectorGL
11090: Function VectorCrossProduct( V1, V2 : TAffineVector ) : TAffineVector
11091: Function VectorDotProduct( V1, V2 : TVectorGL ) : Single
11092: Function VectorLength( V : array of Single ) : Single
11093: Function VectorLerp( V1, V2 : TVectorGL; t : Single ) : TVectorGL
11094: Procedure VectorNegate( V : array of Single )
11095: Function VectorNorm( V : array of Single ) : Single
11096: Function VectorNormalize( V : array of Single ) : Single
11097: Function VectorPerpendicular( V, N : TAffineVector ) : TAffineVector
11098: Function VectorReflect( V, N : TAffineVector ) : TAffineVector
11099: Procedure VectorRotate( var Vector : TVector4f; Axis : TVector3f; Angle : Single )
11100: Procedure VectorScale( V : array of Single; Factor : Single )
11101: Function VectorSubtractGL( V1, V2 : TVectorGL ) : TVectorGL
11102: Function CreateRotationMatrixX( Sine, Cosine : Single ) : TMatrixGL
11103: Function CreateRotationMatrixY( Sine, Cosine : Single ) : TMatrixGL
11104: Function CreateRotationMatrixZ( Sine, Cosine : Single ) : TMatrixGL
11105: Function CreateScaleMatrix( V : TAffineVector ) : TMatrixGL
11106: Function CreateTranslationMatrix( V : TVectorGL ) : TMatrixGL
11107: Procedure MatrixAdjoint( var M : TMatrixGL )
11108: Function MatrixAffineDeterminant( M : TAffineMatrix ) : Single
11109: Procedure MatrixAffineTranspose( var M : TAffineMatrix )

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11110: Function MatrixDeterminant( M : TMatrixGL ) : Single
11111: Procedure MatrixInvert( var M : TMatrixGL )
11112: Function MatrixMultiply( M1, M2 : TMatrixGL ) : TMatrixGL
11113: Procedure MatrixScale( var M : TMatrixGL; Factor : Single )
11114: Procedure MatrixTranspose( var M : TMatrixGL )
11115: Function QuaternionConjugate( Q : TQuaternion ) : TQuaternion
11116: Function QuaternionFromPoints( V1, V2 : TAffineVector ) : TQuaternion
11117: Function QuaternionMultiply( qL, qR : TQuaternion ) : TQuaternion
11118: Function QuaternionSlerp( QStart,QEnd:TQuaternion; Spin:Integer; t:Single):TQuaternion
11119: Function QuaternionToMatrix( Q : TQuaternion ) : TMatrixGL
11120: Procedure QuaternionToPoints( Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector )
11121: Function ConvertRotation( Angles : TAffineVector ) : TVectorGL
11122: Function CreateRotationMatrix( Axis : TVector3f; Angle : Single ) : TMatrixGL
11123: //Function MatrixDecompose( M : TMatrixGL; var Tran : TTransformations ) : Boolean
11124: Function VectorAffineTransform( V : TAffineVector; M : TAffineMatrix ) : TAffineVector
11125: Function VectorTransform( V : TVector4f; M : TMatrixGL ) : TVector4f;
11126: Function VectorTransform1( V : TVector3f; M : TMatrixGL ) : TVector3f;
11127: Function MakeAffineDblVector( V : array of Double ) : TAffineDblVector
11128: Function MakeDblVector( V : array of Double ) : THomogeneousDblVector
11129: Function MakeAffineVector( V : array of Single ) : TAffineVector
11130: Function MakeQuaternion( Imag : array of Single; Real : Single ) : TQuaternion
11131: Function MakeVector( V : array of Single ) : TVectorGL
11132: Function PointInPolygonGL( xp, yp : array of Single; x, y : Single ) : Boolean
11133: Function VectorAffineDblToFlt( V : TAffineDblVector ) : TAffineVector
11134: Function VectorDblToFlt( V : THomogeneousDblVector ) : THomogeneousVector
11135: Function VectorAffineFltToDbl( V : TAffineVector ) : TAffineDblVector
11136: Function VectorFltToDbl( V : TVectorGL ) : THomogeneousDblVector
11137: Function ArcCosGL( X : Extended ) : Extended
11138: Function Arcsingl( X : Extended ) : Extended
11139: Function ArcTan2GL( Y, X : Extended ) : Extended
11140: Function CoTanGL( X : Extended ) : Extended
11141: Function DegToRadGL( Degrees : Extended ) : Extended
11142: Function RadToDegGL( Radians : Extended ) : Extended
11143: Procedure SinCosGL( Theta : Extended; var Sin, Cos : Extended )
11144: Function TanGL( X : Extended ) : Extended
11145: Function Turn( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11146: Function Turn1( Matrix : TMatrixGL; MasterUp : TAffineVector; Angle: Single): TMatrixGL;
11147: Function Pitch( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11148: Function Pitch1( Matrix : TMatrixGL; MasterRight:TAffineVector;Angle:Single):TMatrixGL;
11149: Function Roll( Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
11150: Function Roll1( Matrix:TMatrixGL; MasterDirection:TAffineVector;Angle:Single):TMatrixGL;
11151: end;
11152:
11153:
11154: procedure SIRegister_JclRegistry(CL: TPSPPascalCompiler);
11155: begin
11156:   Function RegCreateKey( const RootKey : HKEY; const Key, Value : string ) : Longint
11157:   Function RegDeleteEntry( const RootKey : HKEY; const Key, Name : string ) : Boolean
11158:   Function RegDeleteKeyTree( const RootKey : HKEY; const Key : string ) : Boolean
11159:   Function RegReadBool( const RootKey : HKEY; const Key, Name : string ) : Boolean
11160:   Function RegReadBoolDef( const RootKey : HKEY; const Key, Name : string; Def : Boolean ) : Boolean
11161:   Function RegReadInteger( const RootKey : HKEY; const Key, Name : string ) : Integer
11162:   Function RegReadIntegerDef( const RootKey : HKEY; const Key, Name : string; Def : Integer ) : Integer
11163:   Function RegReadString( const RootKey : HKEY; const Key, Name : string ) : string
11164:   Function RegReadStringDef( const RootKey : HKEY; const Key, Name, Def : string ) : string
11165:   Function RegReadDWORD( const RootKey : HKEY; const Key, Name : string ) : Int64
11166:   Function RegReadDWORDDef( const RootKey : HKEY; const Key, Name : string; Def : Int64 ) : Int64
11167:   Procedure RegWriteBool( const RootKey : HKEY; const Key, Name : string; Value : Boolean )
11168:   Procedure RegWriteInteger( const RootKey : HKEY; const Key, Name : string; Value : Integer )
11169:   Procedure RegWriteString( const RootKey : HKEY; const Key, Name, Value : string )
11170:   Procedure RegWriteDWORD( const RootKey : HKEY; const Key, Name : string; Value : Int64 )
11171:   Function RegGetValueNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11172:   Function RegGetKeyNames( const RootKey : HKEY; const Key : string; const List : TStrings ) : Boolean
11173:   Function RegHasSubKeys( const RootKey : HKEY; const Key : string ) : Boolean
11174:   Function RegKeyExists( const RootKey : HKEY; const Key : string ) : Boolean
11175:   AddTypes('TExecKind', '( ekMachineRun, ekMachineRunOnce, ekUserRun, ekUser'
11176:             + 'RunOnce, ekServiceRun, ekServiceRunOnce )'
11177:             AddClassN(FindClass('TOBJECT'), 'EJclRegistryError'
11178:             Function UnregisterAutoExec( ExecKind : TExecKind; const Name : string ) : Boolean
11179:             Function RegisterAutoExec( ExecKind : TExecKind; const Name, Cmdline : string ) : Boolean
11180:             Function RegSaveList(const RootKey:HKEY;const Key:string; const ListName:string;const
11181: Items:TStrings):Bool;
11181:             Function RegLoadList(const RootKey:HKEY;const Key:string;const ListName:string;const
11182: SaveTo:TStrings):Bool;
11182:             Function RegDelList( const RootKey:HKEY;const Key:string; const ListName:string): Boolean
11183:           end;
11184:
11185: procedure SIRegister_JclCOM(CL: TPSPPascalCompiler);
11186: begin
11187:   CLSID_StdComponentCategoriesMgr', 'GUID '{0002E005-0000-0000-C000-000000000046}
11188:   CATID_SafeForInitialization', 'GUID '{7DD95802-9882-11CF-9FA9-00AA006C42C4}
11189:   CATID_SafeForScripting', 'GUID '{7DD95801-9882-11CF-9FA9-00AA006C42C4}
11190:   icMAX_CATEGORY_DESC_LEN', 'LongInt'( 128 );
11191:   FindClass('TOBJECT'), 'EInvalidParam
11192:   Function IsDCOMInstalled : Boolean
11193:   Function IsDCOMEnabled : Boolean
11194:   Function GetDCOMVersion : string
11195:   Function GetMDACVersion : string
11196:   Function GetMDACVersion2 : string

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11197: Function MarshalInterThreadInterfaceInVarArray( const iid:TIID; unk: IUnknown; var
11198: VarArray: OleVariant): HResult;
11199: Function MarshalInterProcessInterfaceInStream( const iid:TIID; unk: IUnknown; var stm: IStream): HResult;
11200: Function MarshalInterProcessInterfaceInVarArray( const iid:TIID; unk: IUnknown; var
11201: VarArray: OleVariant): HResult;
11202: Function MarshalInterMachineInterfaceInStream( const iid:TIID; unk: IUnknown; var stm: IStream): HResult;
11203: Function MarshalInterMachineInterfaceInVarArray( const iid:TIID; unk: IUnknown; var
11204: VarArray: OleVariant): HResult;
11205: Function CreateComponentCategory( const CatID : TGUID; const sDescription : string) : HResult
11206: Function RegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11207: Function UnRegisterCLSIDInCategory( const ClassID : TGUID; const CatID : TGUID) : HResult
11208: Function ResetIStreamToStart( Stream : IStream) : Boolean
11209: Function SizeOfIStreamContents( Stream : IStream) : Largeint
11210: Function StreamToVariantArray( Stream : TStream) : OleVariant;
11211: Function StreamToVariantArray1( Stream : IStream) : OleVariant;
11212: Procedure VariantArrayToStream( VarArray : OleVariant; var Stream : TStream);
11213: Procedure VariantArrayToStream1( VarArray : OleVariant; var Stream : IStream);
11214: end;
11215:
11216: procedure SIRegister_JclUnitConv_mX2(CL: TPSCompiler);
11217: begin
11218: Const ('CelsiusFreezingPoint', 'Extended').setExtended( 0.0);
11219: FahrenheitFreezingPoint', 'Extended').setExtended( 32.0);
11220: KelvinFreezingPoint', 'Extended').setExtended( 273.15);
11221: CelsiusAbsoluteZero', 'Extended').setExtended( - 273.15);
11222: FahrenheitAbsoluteZero', 'Extended').setExtended( - 459.67);
11223: KelvinAbsoluteZero', 'Extended').setExtended( 0.0);
11224: DegPerCycle', 'Extended').setExtended( 360.0);
11225: DegPerGrad', 'Extended').setExtended( 0.9);
11226: DegPerRad', 'Extended').setExtended( 57.295779513082320876798154814105);
11227: GradPerCycle', 'Extended').setExtended( 400.0);
11228: GradPerDeg', 'Extended').setExtended( 1.11111111111111111111111111111111);
11229: GradPerRad', 'Extended').setExtended( 63.661977236758134307553505349006);
11230: RadPerCycle', 'Extended').setExtended( 6.283185307179586476925286766559);
11231: RadPerDeg', 'Extended').setExtended( 0.017453292519943295769236907684886);
11232: RadPerGrad', 'Extended').setExtended( 0.01570796326794896192313216916398);
11233: CyclePerDeg', 'Extended').setExtended( 0.002777777777777777777777777777777777);
11234: CyclePerRad', 'Extended').setExtended( 0.0025);
11235: ArcMinutesPerDeg', 'Extended').setExtended( 0.15915494309189533576888376337251);
11236: ArcSecondsPerArcMinute', 'Extended').setExtended( 60.0);
11237: Function HowOneLinerCanBiteYou( const Step, Max : Longint) : Longint
11238: Function MakePercentage( const Step, Max : Longint) : Longint
11239: Function CelsiusToKelvin( const T : double) : double
11240: Function CelsiusToFahrenheit( const T : double) : double
11241: Function KelvinToFahrenheit( const T : double) : double
11242: Function FahrenheitToCelsius( const T : double) : double
11243: Function FahrenheitToKelvin( const T : double) : double
11244: Function CycleToDeg( const Cycles : double) : double
11245: Function CycleToGrad( const Cycles : double) : double
11246: Function CycleToRad( const Cycles : double) : double
11247: Function DegToCycle( const Degrees : double) : double
11248: Function DegToGrad( const Degrees : double) : double
11249: Function DegToRad( const Degrees : double) : double
11250: Function GradToCycle( const Grads : double) : double
11251: Function GradToDeg( const Grads : double) : double
11252: Function GradToRad( const Grads : double) : double
11253: Function RadToCycle( const Radians : double) : double
11254: Function RadToDeg( const Radians : double) : double
11255: Function RadToGrad( const Radians : double) : double
11256: Function DmsToDeg( const D, M : Integer; const S : double) : double
11257: Function DmsToRad( const D, M : Integer; const S : double) : double
11258: Procedure DegToDms( const Degrees : double; out D, M : Integer; out S : double)
11259: Function DegToDmsStr( const Degrees : double; const SecondPrecision : Cardinal) : string
11260: Procedure CartesianToPolar( const X, Y : double; out R, Phi : double)
11261: Procedure PolarToCartesian( const R, Phi : double; out X, Y : double)
11262: Procedure CartesianToCylinder( const X, Y, Z : double; out R, Phi, Zeta : double)
11263: Procedure CartesianToSpheric( const X, Y, Z : double; out Rho, Phi, Theta : double)
11264: Procedure CylinderToCartesian( const R, Phi, Zeta : double; out X, Y, Z : double)
11265: Procedure SphericToCartesian( const Rho, Theta, Phi : double; out X, Y, Z : double)
11266: Function CmToInch( const Cm : double) : double
11267: Function InchToCm( const Inch : double) : double
11268: Function FeetToMetre( const Feet : double) : double
11269: Function MetreToFeet( const Metre : double) : double
11270: Function YardToMetre( const Yard : double) : double
11271: Function MetreToYard( const Metre : double) : double
11272: Function NmToKm( const Nm : double) : double
11273: Function KmToNm( const Km : double) : double
11274: Function KmToSm( const Km : double) : double
11275: Function SmToKm( const Sm : double) : double
11276: Function LitreToGalUs( const Litre : double) : double
11277: Function GalUsToLitre( const GalUs : double) : double
11278: Function GalUsToGalCan( const GalUs : double) : double
11279: Function GalCanToGalUs( const GalCan : double) : double
11280: Function GalUsToGalUk( const GalUs : double) : double
11281: Function GalUkToGalUs( const GalUk : double) : double
11282: Function LitreToGalCan( const Litre : double) : double

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11283: Function GalCanToLitre( const GalCan : double) : double
11284: Function LitreToGalUk( const Litre : double) : double
11285: Function GalUkToLitre( const GalUk : double) : double
11286: Function KgToLb( const Kg : double) : double
11287: Function LbToKg( const Lb : double) : double
11288: Function KgToOz( const Kg : double) : double
11289: Function OzToKg( const Oz : double) : double
11290: Function CwtUsToKg( const Cwt : double) : double
11291: Function CwtUkToKg( const Cwt : double) : double
11292: Function KaratToKg( const Karat : double) : double
11293: Function KgToCwtUs( const Kg : double) : double
11294: Function KgToCwtUk( const Kg : double) : double
11295: Function KgToKarat( const Kg : double) : double
11296: Function KgToSton( const Kg : double) : double
11297: Function KgToLton( const Kg : double) : double
11298: Function StonToKg( const STon : double) : double
11299: Function LtonToKg( const Lton : double) : double
11300: Function QrUsToKg( const Qr : double) : double
11301: Function QrUkToKg( const Qr : double) : double
11302: Function KgToQrUs( const Kg : double) : double
11303: Function KgToQrUk( const Kg : double) : double
11304: Function PascalToBar( const Pa : double) : double
11305: Function PascalToAt( const Pa : double) : double
11306: Function PascalToTorr( const Pa : double) : double
11307: Function BarToPascal( const Bar : double) : double
11308: Function AtToPascal( const At : double) : double
11309: Function TorrToPascal( const Torr : double) : double
11310: Function KnotToMs( const Knot : double) : double
11311: Function HpElectricToWatt( const HpE : double) : double
11312: Function HpMetricToWatt( const HpM : double) : double
11313: Function MsToKnot( const ms : double) : double
11314: Function WattToHpElectric( const W : double) : double
11315: Function WattToHpMetric( const W : double) : double
11316: function getBigPI: string; //PI of 1000 numbers
11317:
11318: procedure SIRegister_devutils(CL: TPSPPascalCompiler);
11319: begin
11320:   Function CDEExecuteFile( const FileName, Params, DefaultDir : string; ShowCmd : Integer) : THandle
11321:   Procedure CDCopyFile( const FileName, DestName : string)
11322:   Procedure CDMoveFile( const FileName, DestName : string)
11323:   Function MakeCommaTextToColor( Text : string; Index : Integer; DefaultColor : TColor) : TColor
11324:   Procedure CDDeleteFiles( Sender : TObject; s : string)
11325:   Function CDGetTempDir: string
11326:   Function CDGetFileSize( FileName : string) : longint
11327:   Function GetFileTime( FileName : string) : longint
11328:   Function GetShortName( FileName : string) : string
11329:   Function GetFullName( FileName : string) : string
11330:   Function WinReboot : boolean
11331:   Function WinDir : String
11332:   Function RunFile( FileToRun : string; Params : string; Dir : string; Wait : boolean) : cardinal
11333:   Function RunFile_( Cmd, WorkDir : string; Wait : boolean) : Boolean
11334:   Function devExecutor : TdevExecutor
11335: end;
11336:
11337: procedure SIRegister_FileAssocs(CL: TPSPPascalCompiler);
11338: begin
11339:   Procedure CheckAssociations // AssociationsCount', 'LongInt'( 7);
11340:   Procedure Associate( Index : integer)
11341:   Procedure UnAssociate( Index : integer)
11342:   Function IsAssociated( Index : integer) : boolean
11343:   Function CheckFiletype( const extension, filetype, description, verb, serverapp : string) : boolean
11344:   Procedure RegisterFiletype( const extension, filetype, description, verb, serverapp, IcoNum: string)
11345:   Procedure RegisterDDEServer( const filetype, verb, topic, servername, macro : string)
11346:   procedure RefreshIcons;
11347:   function GetShadeColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11348:   function MergColor(Colors: Array of TColor): TColor;
11349:   function NewColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11350:   procedure DimBitmap(ABitmap: TBitmap; Value: integer);
11351:   function GrayColor(ACanvas: TCanvas; clr: TColor; Value: integer): TColor;
11352:   function GetInverseColor(AColor: TColor): TColor;
11353:   procedure GrayBitmap(ABitmap: TBitmap; Value: integer);
11354:   procedure DrawBitmapShadow(B: TBitmap; ACanvas: TCanvas; X,Y: integer; ShadowColor: TColor);
11355:   procedure DrawCheckMark(ACanvas: TCanvas; X, Y: integer);
11356:   Procedure GetSystemMenuFont(Font: TFont);
11357: end;
11358:
11359: //*****unit uPSI_JvHLParser;*****
11360: function IsStringConstant(const St: string): Boolean;
11361: function IsIntConstant(const St: string): Boolean;
11362: function IsRealConstant(const St: string): Boolean;
11363: function IsIdentifier(const ID: string): Boolean;
11364: function GetStringValue(const St: string): string;
11365: procedure ParseString(const S: string; Ss: TStrings);
11366: function IsStringConstantW(const St: WideString): Boolean;
11367: function IsIntConstantW(const St: WideString): Boolean;
11368: function IsRealConstantW(const St: WideString): Boolean;
11369: function IsIdentifierW(const ID: WideString): Boolean;
11370: function GetStringValueW(const St: WideString): WideString;
11371: procedure ParseStringW(const S: WideString; Ss: TStrings);

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11372:
11373:
11374: //*****unit uPSI_JclMapi;*****
11375:
11376: Function JclSimpleSendMail( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11377: Function JclSimpleSendFax( const ARecipient, AName, ASubject, ABody : string; const AAttachment : TFileName; ShowDialog : Boolean; AParentWND : HWnd ) : Boolean
11378: Function JclSimpleBringUpSendMailDialog( const ASubject, ABody:string;const AAttach:TFileName;AParentWND:HWnd):Bool
11379: Function MapiCheck( const Res : DWORD; IgnoreUserAbort : Boolean ) : DWORD
11380: Function MapiErrorMessage( const ErrorCode : DWORD ) : string
11381:
11382: procedure SIRегистer_IdNTLM(CL: TPSPascalCompiler);
11383: begin
11384:   //'Pdes_key_schedule', '^des_key_schedule // will not work
11385:   Function BuildType1Message( ADomain, AHost : String ) : String
11386:   Function BuildType3Message(ADomain,AHost,AUsername:WideString;APassword,ANonce:String):String
11387:   Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIaAuthenticationClass )
11388:   Function FindAuthClass( AuthName : String ) : TIaAuthenticationClass
11389:   GBase64CodeTable', 'string'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789+/
11390:   GXXCodeTable', 'string'+-0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz
11391:   GUUECodeTable', 'string`!#$%&'()*+,-./0123456789?;<=>?@ABCDEFGHIJKLMNPQRSTUVWXYZ[\]^_
11392: end;
11393:
11394: procedure SIRегистer_WDOSocketUtils(CL: TPSPascalCompiler);
11395: begin
11396:   ('IpAny', 'LongWord').SetUInt( $00000000 );
11397:   IpLoopBack', 'LongWord').SetUInt( $7F000001 );
11398:   IpBroadcast', 'LongWord').SetUInt( $FFFFFFF );
11399:   IpNone', 'LongWord').SetUInt( $FFFFFFF );
11400:   PortAny', 'LongWord( $0000 );
11401:   SocketMaxConnections', 'LongInt'( 5 );
11402:   TIPAddr', 'LongWord
11403:   TIPRec', 'record IpB1 : byte; IpB2 : byte; IpB3 : byte; IpB4 : Byte; end
11404:   Function HostToNetLong( HostLong : LongWord ) : LongWord
11405:   Function HostToNetShort( HostShort : Word ) : Word
11406:   Function NetToHostLong( NetLong : LongWord ) : LongWord
11407:   Function NetToHostShort( NetShort : Word ) : Word
11408:   Function StrToIp( Ip : string ) : TIPAddr
11409:   Function IpToStr( Ip : TIPAddr ) : string
11410: end;
11411:
11412: (*-----*)
11413: procedure SIRегистer_ALSMTPCClient(CL: TPSPascalCompiler);
11414: begin
11415:   TA1SmtpClientAuthType', '( AlsmtpClientAuthNone, alsmtpClientAut'
11416:   +'hPlain, AlsmtpClientAuthLogin, AlsmtpClientAuthCramMD5, AlsmtpClientAuthCr'
11417:   +'amSha1, AlsmtpClientAuthAutoSelect )
11418:   TA1SmtpClientAuthTypeSet', 'set of TA1SmtpClientAuthType
11419:   SIRегистer_TA1SmtpClient(CL);
11420: end;
11421:
11422: procedure SIRегистer_WDOSPlcUtils(CL: TPSPascalCompiler);
11423: begin
11424:   'TBitNo', 'Integer
11425:   TStByteNo', 'Integer
11426:   TStationNo', 'Integer
11427:   TInOutNo', 'Integer
11428:   TIO', '( EE, AA, NE, NA )
11429:   TBitSet', 'set of TBitNo
11430:   TAddrKind', 'set of ( akBit0, akBit1, akBit2, akOut, akNot, akBus )
11431:   TBitAddrRec', 'record Kind : TAddrKind; InOutNo : TInOutNo; ByteNo : Byte; end
11432:   TBitAddr', 'LongInt
11433:   TByteAddrRec', 'record Kind : TAddrKind; ByteNo : Byte; end
11434:   TByteAddr', 'SmallInt
11435:   TInOutState', '( iosInit, iosHalt, iosRun, iosError )
11436:   Function BitAddr(aIo: TIO; aInOutNo : TInOutNo; aByteNo : Byte; aBitNo : TBitNo) : TBitAddr
11437:   Function BusBitAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStatByteNo:TStatByteNo;aBitNo:TBitNo):TBitAddr;
11438:   Procedure BitAddrToValues(aBitAddr:TBitAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte;var aBitNo:TBitNo);
11439:   Function BitAddrToStr( Value : TBitAddr ) : string
11440:   Function StrToBitAddr( const Value : string ) : TBitAddr
11441:   Function ByteAddr( aIo : TIO; aInOutNo : TInOutNo; aByteNo : Byte ) : TByteAddr
11442:   Function BusByteAddr(aIo:TIO;aInOutNo:TInOutNo;aStat:TStatNo;aStatByteNo:TStatByteNo;aBitNo:TBitNo):TByteAddr
11443:   Procedure ByteAddrToValues(aByteAddr:TByteAddr;var aIo:TIO;var aInOutNo:TInOutNo;var aByteNo:Byte)
11444:   Function ByteAddrToStr( Value : TByteAddr ) : string
11445:   Function StrToByteAddr( const Value : string ) : TByteAddr
11446:   Procedure IncByteAddr( var ByteAddr : TByteAddr; Increment : Integer )
11447:   Procedure DecByteAddr( var ByteAddr : TByteAddr; Decrement : Integer )
11448:   Function InOutStateToStr( State : TInOutState ) : string
11449:   Function MasterErrorToStr( ErrorCode : TErrorCode ) : string
11450:   Function SlaveErrorToStr( ErrorCode : TErrorCode ) : string
11451: end;
11452:
11453: procedure SIRегистer_WDOSTimers(CL: TPSPascalCompiler);
11454: begin
11455:   TIntFreq', '( ifNone, if32768, if16384, if8192, if4096, if2048, '
11456:   +'if1024, if512, if256, if128, if64, if32, if16, if8, if4, if2 )

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11457: DpmiPmVector', 'Int64
11458:   'DInterval', 'LongInt'( 1000);
11459: //''DEnabled', 'Boolean')BoolToStr( True);
11460: 'DIntFreq', 'string' if64
11461: //''DMessages', 'Boolean if64);
11462: SIRegister_TwdxCustomTimer(CL);
11463: SIRegister_TwdxTimer(CL);
11464: SIRegister_TwdxRtcTimer(CL);
11465: SIRegister_TCustomIntTimer(CL);
11466: SIRegister_TIntTimer(CL);
11467: SIRegister_TRtcIntTimer(CL);
11468: Function RealNow : TDateTime
11469: Function MsToDateTime( Millisecond : LongInt ) : TDateTime
11470: Function DateTimeToMs( Time : TDateTime ) : LongInt
11471: end;
11472:
11473: procedure SIRegister_IdSysLogMessage(CL: TPSPascalCompiler);
11474: begin
11475: TIdSyslogPRI', 'Integer
11476: TIdSyslogFacility', '( sfKernel, sfUserLevel, sfMailSystem, sfSy'
11477:   +'stemDaemon, sfSecurityOne, sfSysLogInternal, sfLPR, sfNNTP, sfUUCP, sfCloc'
11478:   +'kDaemonOne, sfSecurityTwo, sfFTPDaemon, sfNTP, sfLogAudit, sfLogAlert, sfC'
11479:   +'lockDaemonTwo, sfLocalUseZero, sfLocalUseOne, sfLocalUseTwo, sfLocalUseThr'
11480:   +'ee, sfLocalUseFour, sfLocalUseFive, sfLocalUseSix, sfLocalUseSeven )
11481: TIdSyslogSeverity', '(slEmergency,slAlert,slCritical,slError,slWarning,slNotice,slInformational,slDebug)
11482: SIRegister_TIdSysLogMsgPart(CL);
11483: SIRegister_TIdSysLogMessage(CL);
11484: Function FacilityToString( AFac : TIdSyslogFacility ) : string
11485: Function SeverityToString( ASec : TIdSyslogSeverity ) : string
11486: Function NoToSeverity( ASev : Word ) : TIdSyslogSeverity
11487: Function logSeverityToNo( ASev : TIdSyslogSeverity ) : Word
11488: Function NoToFacility( AFac : Word ) : TIdSyslogFacility
11489: Function logFacilityToNo( AFac : TIdSyslogFacility ) : Word
11490: end;
11491:
11492: procedure SIRegister_TextUtils(CL: TPSPascalCompiler);
11493: begin
11494: 'UWhitespace', 'String '(?:\s*)
11495: Function StripSpaces( const AText : string ) : string
11496: Function CharCount( const AText : string; Ch : Char ) : Integer
11497: Function BalancedText( const AText : string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11498: Function BalancedTextReg( const AText:string; const Ch1, Ch2 : Char; const Count : Integer ) : string
11499: end;
11500:
11501:
11502: procedure SIRegister_ExtPascalUtils(CL: TPSPascalCompiler);
11503: begin
11504: ExtPascalVersion', 'String '0.9.8
11505: AddTypeS('TBrowser', '( brUnknown, brIE, brFirefox, brChrome, brSafari, br'
11506:   +'Opera, brKonqueror, brMobileSafari )
11507: AddTypeS('TCSSUnit', '( cssPX, cssPerc, cssEM, cssEX, cssIN, cssCM, cssMM, cssPT, cssPC, cssnone )
11508: AddTypeS('TExtProcedure', 'Procedure
11509: Function DetermineBrowser( const UserAgentStr : string ) : TBrowser
11510: Function ExtExtract(const Delims:array of string;var S:string;var Matches:TStringList;Remove:bool):bool;
11511: Function ExtExplode( Delim : char; const S : string; Separator : char ) : TStringList
11512: Function FirstDelimiter( const Delimiters, S : string; Offset : integer ) : integer
11513: Function RPosEx( const Substr, Str : string; Offset : integer ) : integer
11514: Function CountStr( const Substr, Str : string; UntilStr : string ) : integer
11515: Function StrToJS( const S : string; UseBR : boolean ) : string
11516: Function CaseOf( const S : string; const Cases : array of string ) : integer
11517: Function RCaseOf( const S : string; const Cases : array of string ) : integer
11518: Function EnumToJSString( TypeInfo : PTypeInfo; Value : integer ) : string
11519: Function SetPaddings(Top:integer;Right:int;Bottom:intr;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11520: Function SetMargins(Top:integer;Right:int;Bottom:int;Left:integer;CSSUnit:TCSSUnit;Header:bool):string;
11521: Function ExtBefore( const BeforeS, AfterS, S : string ) : boolean
11522: Function IsUpperCase( S : string ) : boolean
11523: Function BeautifyJS(const AScript:string;const StartingLevel:integer;SplitHTMLNewLine: boolean):string;
11524: Function BeautifyCSS( const AStyle : string ) : string
11525: Function LengthRegExp( Rex : string; CountAll : Boolean ) : integer
11526: Function JSDateToDate( JSDate : string ) : TDateTime
11527: end;
11528:
11529: procedure SIRegister_JclShell(CL: TPSPascalCompiler);
11530: begin
11531: TSHDeleteOption', '( doSilent, doAllowUndo, doFilesOnly )
11532: TSHDeleteOptions', 'set of TSHDeleteOption
11533: TSHRenameOption', '( roSilent, roRenameOnCollision )
11534: TSHRenameOptions', 'set of TSHRenameOption
11535: Function SHDeleteFiles( Parent : HWND; const Files : string; Options : TSHDeleteOptions ) : Boolean
11536: Function SHDeleteFolder( Parent : HWND; const Folder : string; Options : TSHDeleteOptions ) : Boolean
11537: Function SHRenameFile( const Src, Dest : string; Options : TSHRenameOptions ) : Boolean
11538: TEnumFolderFlag', '( efFolders, efNonFolders, efIncludeHidden )
11539: TEnumFolderFlags', 'set of TEnumFolderFlag
11540: TEnumFolderRec', 'record DisplayName : string; Attributes : DWOR'
11541:   +'D; IconLarge : HICON; IconSmall : HICON; Item : PItemIdList; EnumIdList : '
11542:   +'IEnumIdList; Folder : IShellFolder; end
11543: Function SHEnumFolderFirst(const Folder:string;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Boolean;
11544: Function SHEnumSpecialFolderFirst(SpecialFolder:DWORD;Flags:TEnumFolderFlags;var F:TEnumFolderRec):Bool;
11545: Procedure SHEnumFolderClose( var F : TEnumFolderRec )

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11546: Function SHEnumFolderNext( var F : TEnumFolderRec ) : Boolean
11547: Function GetSpecialFolderLocation( const Folder : Integer ) : string
11548: Function DisplayPropDialog( const Handle : HWND; const FileName : string ) : Boolean;
11549: Function DisplayPropDialog1( const Handle : HWND; const Item : PItemIdList ) : Boolean;
11550: Function DisplayContextMenu( const Handle : HWND; const FileName : string; Pos : TPoint ) : Boolean
11551: Function OpenFolder( const Path : string; Parent : HWND ) : Boolean
11552: Function OpenSpecialFolder( FolderID : Integer; Parent : HWND ) : Boolean
11553: Function SHReallocMem( var P : Pointer; Count : Integer ) : Boolean
11554: Function SHAllocMem( out P : Pointer; Count : Integer ) : Boolean
11555: Function SHGetMem( var P : Pointer; Count : Integer ) : Boolean
11556: Function SHFreeMem( var P : Pointer ) : Boolean
11557: Function DriveToPidlBind( const DriveName : string; out Folder : IShellFolder ) : PItemIdList
11558: Function PathToPidl( const Path : string; Folder : IShellFolder ) : PItemIdList
11559: Function PathToPidlBind( const FileName : string; out Folder : IShellFolder ) : PItemIdList
11560: Function PidlBindToParent( const IdList:PItemIdList;out Folder:IShellFolder;out Last:PItemIdList):Bool;
11561: Function PidlCompare( const Pid1, Pid2 : PItemIdList ) : Boolean
11562: Function PidlCopy( const Source : PItemIdList; out Dest : PItemIdList ) : Boolean
11563: Function PidlFree( var IdList : PItemIdList ) : Boolean
11564: Function PidlGetDepth( const Pidl : PItemIdList ) : Integer
11565: Function PidlGetLength( const Pidl : PItemIdList ) : Integer
11566: Function PidlGetNext( const Pidl : PItemIdList ) : PItemIdList
11567: Function PidlToPath( IdList : PItemIdList ) : string
11568: Function StrRetFreeMem( StrRet : TStrRet ) : Boolean
11569: Function StrRetToString( IdList : PItemIdList; StrRet : TStrRet; Free : Boolean ) : string
11570: PShellLink', '^TShellLink // will not work
11571: TShellLink', 'record Arguments : string; ShowCmd : Integer; Work'
11572: +'ingDirectory : string; IdList : PItemIdList; Target : string; Description '
11573: +' : string; IconLocation : string; IconIndex : Integer; HotKey : Word; end
11574: Procedure ShellLinkFree( var Link : TShellLink )
11575: Function ShellLinkResolve( const FileName : string; var Link : TShellLink ) : HRESULT
11576: Function ShellLinkCreate( const Link : TShellLink; const FileName : string ) : HRESULT
11577: Function ShellLinkCreateSystem( const Link:TShellLink;const Folder:Integer; const FileName:string):HRESULT;
11578: Function ShellLinkGetIcon( const Link : TShellLink; const Icon : TIcon ) : Boolean
11579: Function SHD11GetVersion( const FileName : string; var Version : TDllVersionInfo ) : Boolean
11580: Function GetSystemIcon( IconIndex : Integer; Flags : Cardinal ) : HICON
11581: Function OverlayIcon( var Icon : HICON; Overlay : HICON; Large : Boolean ) : Boolean
11582: Function OverlayIconShortCut( var Large, Small : HICON ) : Boolean
11583: Function OverlayIconShared( var Large, Small : HICON ) : Boolean
11584: Function SHGetItemInfoTip( const Folder : IShellFolder; Item : PItemIdList ) : string
11585: Function ShellExecEx( const FileName:string;const Parameters:string;const Verb:string; CmdShow:Int ):Bool;
11586: Function ShellExec(Wnd: Integer;const Operation,FileName,Parameters,Directy:string;ShowCommand:Int ):Bool;
11587: Function ShellExecAndWait(const FileName:string;const Params: string;const Verb:string;CmdShow:Int ):Bool;
11588: Function ShellOpenAs( const FileName : string ) : Boolean
11589: Function ShellRasDial( const EntryName : string ) : Boolean
11590: Function ShellRunControlPanel( const NameOrFileName:string; AppletNumber:Integer ):Boolean
11591: Function GetFileNameIcon( const FileName : string; Flags : Cardinal ) : HICON
11592: TJclFileExeType', '( etError, etMsDos, etWin16, etWin32Gui, etWin32Con )
11593: Function GetfileExeType( const FileName : TFileName ) : TJclFileExeType
11594: Function ShellFindExecutable( const FileName, DefaultDir : string ) : string
11595: Procedure keybd_event( bvK : Byte; bScan : Byte; dwFlags, dwExtraInfo : DWORD )
11596: Function OemKeyScan( wOemChar : Word ) : DWORD
11597: Procedure mouse_event( dwFlags, dx, dy, dwData, dwExtraInfo : DWORD )
11598: end;
11599:
11600: procedure SIRegister_cXMLFunctions(CL: TPPascalCompiler);
11601: begin
11602: xmlVersion', 'String '1.0 FindClass('TOBJECT'),'Exml
11603: //Function xmlValidChar( const Ch : AnsiChar ) : Boolean;
11604: Function xmlValidChar1( const Ch : UCS4Char ) : Boolean;
11605: Function xmlValidChar2( const Ch : WideChar ) : Boolean;
11606: Function xmlIsSpaceChar( const Ch : WideChar ) : Boolean
11607: Function xmlIsLetter( const Ch : WideChar ) : Boolean
11608: Function xmlIsDigit( const Ch : WideChar ) : Boolean
11609: Function xmlIsNameStartChar( const Ch : WideChar ) : Boolean
11610: Function xmlIsNameChar( const Ch : WideChar ) : Boolean
11611: Function xmlIsPubidChar( const Ch : WideChar ) : Boolean
11612: Function xmlValidName( const Text : UnicodeString ) : Boolean
11613: //xmlSpace', 'Char #$20 or #$9 or #$D or #$A';
11614: //Function xmlSkipSpace( var P : PWideChar ) : Boolean
11615: //Function xmlSkipEq( var P : PWideChar ) : Boolean
11616: //Function xmlExtractQuotedText( var P : PWideChar; var S : UnicodeString ) : Boolean
11617: //Function xmlGetEntityEncoding( const Buf : Pointer; const BufSize : Integer; out HeaderSize : Integer )
11618: : TUnicodeCodecClass
11619: Function xmlResolveEntityReference( const RefName : UnicodeString ) : WideChar
11620: Function xmlTag( const Tag : UnicodeString ) : UnicodeString
11621: Function xmlEndTag( const Tag : UnicodeString ) : UnicodeString
11622: Function xmlAttrTag( const Tag : UnicodeString; const Attr : UnicodeString ) : UnicodeString
11623: Procedure xmlSafeTextInPlace( var Txt : UnicodeString )
11624: Function xmlSafeText( const Txt : UnicodeString ) : UnicodeString
11625: Function xmlSpaceIndent( const IndentLength : Integer; const IndentLevel : Integer ):UnicodeString
11626: Function xmlTabIndent( const IndentLevel : Integer ) : UnicodeString
11627: Function xmlComment( const Comment : UnicodeString ) : UnicodeString
11628: Procedure SelfTestcXMLFunctions
11629: end;
11630:
11631: (*-----*)
11632: procedure SIRegister_DepWalkUtils(CL: TPPascalCompiler);
11633: begin

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11634: Function AWaitCursor : IUnknown
11635: Function ChangeCursor( NewCursor : TCursor) : IUnknown
11636: Procedure SuspendRedraw( AControl : TWinControl; Suspend : boolean)
11637: Function YesNo( const ACaption, AMsg : string) : boolean
11638: Procedure strTokenize( const S : string; Delims : TSysCharSet; Results : TStrings)
11639: Function GetBorlandLibPath( Version : integer; ForDelphi : boolean) : string
11640: Function GetExpandedLibRoot( Version : integer; ForDelphi : boolean) : string
11641: Procedure GetPathList( Version : integer; ForDelphi : boolean; Strings : TStrings)
11642: Procedure GetSystemPaths( Strings : TStrings)
11643: Procedure MakeEditNumeric( EditHandle : integer)
11644: end;
11645:
11646: procedure SIRegister_yuvconverts(CL: TPSPPascalCompiler);
11647: begin
11648:   AddTypeS('TVideoCodec','(vcUnknown,vcRGB,vcYUY2,vcUYVY,vcBTYUV,vcYV,U9,vcYUV12,vcY8,vcY211)
11649:   'BI_YUY2','LongWord($32595559);
11650:   'BI_UYVY','LongWord').SetUInt($59565955);
11651:   'BI_BTYUV','LongWord').SetUInt($50313459);
11652:   'BI_YVU9','LongWord').SetUInt($39555659);
11653:   'BI_YUV12','LongWord($30323449);
11654:   'BI_Y8','LongWord').SetUInt($20203859);
11655:   'BI_Y211','LongWord').SetUInt($31313259);
11656: Function BICompressionToVideoCodec( Value : DWord) : TVideoCodec
11657: Function ConvertCodecToRGB(Codec:TVideoCodec;Src,Dst:Pointer;AWidth,AHeight:Integer):Boolean;
11658: end;
11659:
11660: (*-----*)
11661: procedure SIRegister_AviCap(CL: TPSPPascalCompiler);
11662: begin
11663:   'WM_USER','LongWord').SetUInt($0400);
11664:   'WM_CAP_START','LongWord').SetUInt($0400);
11665:   'WM_CAP_END','longword').SetUInt($0400+85);
11666: //WM_CAP_START+ 85
11667: // WM_CAP_SET_CALLBACK_CAPCONTROL = (WM_CAP_START+ 85);
11668: Function capSetCallbackOnError( hwnd : THandle; fpProc : LongInt) : LongInt
11669: Function capSetCallbackOnStatus( hwnd : THandle; fpProc : LongInt) : LongInt
11670: Function capSetCallbackOnYield( hwnd : THandle; fpProc : LongInt) : LongInt
11671: Function capSetCallbackOnFrame( hwnd : THandle; fpProc : LongInt) : LongInt
11672: Function capSetCallbackOnVideoStream( hwnd : THandle; fpProc : LongInt) : LongInt
11673: Function capSetCallbackOnWaveStream( hwnd : THandle; fpProc : LongInt) : LongInt
11674: Function capSetCallbackOnCapControl( hwnd : THandle; fpProc : LongInt) : LongInt
11675: Function capSetUserData( hwnd : THandle; lUser : LongInt) : LongInt
11676: Function capGetUserData( hwnd : THandle) : LongInt
11677: Function capDriverConnect( hwnd : THandle; I : Word) : LongInt
11678: Function capDriverDisconnect( hwnd : THandle) : LongInt
11679: Function capDriverGetName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11680: Function capDriverGetVersion( hwnd : THandle; szVer : LongInt; wSize : Word) : LongInt
11681: Function capDriverGetCaps( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11682: Function capFileSetCaptureFile( hwnd : THandle; szName : LongInt) : LongInt
11683: Function capfileGetCaptureFile( hwnd : THandle; szName : LongInt; wSize : Word):LongInt
11684: Function capfileAlloc( hwnd : THandle; dwSize : LongInt) : LongInt
11685: Function capfileSaveAs( hwnd : THandle; szName : LongInt) : LongInt
11686: Function capFileSetInfoChunk( hwnd : THandle; lpInfoChunk : LongInt) : LongInt
11687: Function capfileSaveDIB( hwnd : THandle; szName : LongInt) : LongInt
11688: Function capEditCopy( hwnd : THandle) : LongInt
11689: Function capSetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11690: Function capGetAudioFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11691: Function capGetAudioFormatSize( hwnd : THandle) : LongInt
11692: Function capDlgVideoFormat( hwnd : THandle) : LongInt
11693: Function capDlgVideoSource( hwnd : THandle) : LongInt
11694: Function capDlgVideoDisplay( hwnd : THandle) : LongInt
11695: Function capDlgVideoCompression( hwnd : THandle) : LongInt
11696: Function capGetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11697: Function capGetVideoFormatSize( hwnd : THandle) : LongInt
11698: Function capSetVideoFormat( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11699: Function capPreview( hwnd : THandle; f : Word) : LongInt
11700: Function capPreviewRate( hwnd : THandle; wMS : Word) : LongInt
11701: Function capOverlay( hwnd : THandle; f : Word) : LongInt
11702: Function capPreviewScale( hwnd : THandle; f : Word) : LongInt
11703: Function capGetStatus( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11704: Function capSetScrollPos( hwnd : THandle; lpP : LongInt) : LongInt
11705: Function capGrabFrame( hwnd : THandle) : LongInt
11706: Function capGrabFrameNoStop( hwnd : THandle) : LongInt
11707: Function capCaptureSequence( hwnd : THandle) : LongInt
11708: Function capCaptureSequenceNoFile( hwnd : THandle) : LongInt
11709: Function capCaptureStop( hwnd : THandle) : LongInt
11710: Function capCaptureAbort( hwnd : THandle) : LongInt
11711: Function capCaptureSingleFrameOpen( hwnd : THandle) : LongInt
11712: Function capCaptureSingleFrameClose( hwnd : THandle) : LongInt
11713: Function capCaptureSingleFrame( hwnd : THandle) : LongInt
11714: Function capCaptureGetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11715: Function capCaptureSetSetup( hwnd : THandle; s : LongInt; wSize : Word) : LongInt
11716: Function capSetMCIDeviceName( hwnd : THandle; szName : LongInt) : LongInt
11717: Function capGetMCIDeviceName( hwnd : THandle; szName : LongInt; wSize : Word) : LongInt
11718: Function capPaletteOpen( hwnd : THandle; szName : LongInt) : LongInt
11719: Function capPaletteSave( hwnd : THandle; szName : LongInt) : LongInt
11720: Function capPalettePaste( hwnd : THandle) : LongInt
11721: Function capPaletteAuto( hwnd : THandle; iFrames : Word; iColors : LongInt) : LongInt
11722: Function capPaletteManual( hwnd : THandle; fGrab : Word; iColors : LongInt) : LongInt

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11723: //PCapDriverCaps', '^TCapDriverCaps // will not work
11724: TCapDriverCaps', 'record wDeviceIndex : WORD; fHasOverlay : BOOL'
11725: +' ; fHasDlgVideoSource : BOOL; fHasDlgVideoFormat : BOOL; fHasDlgVideoDispla'
11726: +'y : BOOL; fCaptureInitialized : BOOL; fDriverSuppliesPalettes : BOOL; hvid'
11727: +'eoIn : THANDLE; hVideoOut : THANDLE; hVideoExtIn:THANDLE; hVideoExtOut:THANDLE; end
11728: //PCapStatus', 'TCapStatus // will not work
11729: TCapStatus', 'record uiImageWidth : UINT; uiImageHeight : UINT; '
11730: +'fLiveWindow : BOOL; fOverlayWindow : BOOL; fScale : BOOL; ptScroll : TPOINT'
11731: +'T; fUsingDefaultPalette : BOOL; fAudioHardware : BOOL; fCapFileExists : BO'
11732: +'OL; dwCurrentVideoFrame : DWORD; dwCurrentVideoFramesDropped : DWORD; dwCu'
11733: +'rrentWaveSamples : DWORD; dwCurrentTimeElapsedMS : DWORD; hPalCurrent : HP'
11734: +'ALETTE; fCapturingNow : BOOL; dwReturn : DWORD; wNumVideoAllocated : WORD; '
11735: +'wNumAudioAllocated : WORD; end
11736: //PCaptureParms', '^TCaptureParms // will not work
11737: TCaptureParms', 'record dwRequestMicroSecPerFrame : DWORD; fMake'
11738: +'UserHitOKToCapture : BOOL; wPercentDropForError : WORD; fyield : BOOL; dwI'
11739: +'ndexSize : DWORD; wChunkGranularity : WORD; fUsingDOSMemory : BOOL; wNumVi'
11740: +'deoRequested : WORD; fCaptureAudio : BOOL; wNumAudioRequested : WORD; vKey'
11741: +'Abort : WORD; fAbortLeftMouse : BOOL; fAbortRightMouse : BOOL; fLimitEnabl'
11742: +'ed : BOOL; wTimeLimit : WORD; fMCIControl : BOOL; fStepMCIDevice : BOOL; d'
11743: +'wMCISearchBar : DWORD; dwMCISearchTime : DWORD; fStepCaptureAt2x : BOOL; wSt'
11744: +'epCaptureAverageFrames : WORD; dwAudioBufferSize : DWORD; fDisableWriteCac'
11745: +'he : BOOL; AVStreamMaster : WORD; end
11746: // PCapInfoChunk', '^TCapInfoChunk // will not work
11747: //TCapInfoChunk', 'record fccInfoID : FOURCC; lpData : LongInt; cbData : LongInt; end
11748: 'CONTROLCALLBACK_PREROLL', 'LongInt'( 1);
11749: 'CONTROLCALLBACK_CAPTURING', 'LongInt'( 2);
11750: Function capCreateCaptureWindow( lpszWindowName: PChar; dwStyle : DWord; x, y : Integer; nWidth, nHeight
: Integer; hwndParent : THandle; nID : Integer) : THandle
11751: Function
capGetDriverDescription(wDriverIndex:DWord;lpszName:PChar;cbName:Integer;lpszVer:PChar;cbVer:Int):Bool;
11752: 'IDS_CAP_BEGIN', 'LongInt'( 300);
11753: 'IDS_CAP_END', 'LongInt'( 301);
11754: 'IDS_CAP_INFO', 'LongInt'( 401);
11755: 'IDS_CAP_OUTOFGMEM', 'LongInt'( 402);
11756: 'IDS_CAP_FILEEXISTS', 'LongInt'( 403);
11757: 'IDS_CAP_ERRORPALOPEN', 'LongInt'( 404);
11758: 'IDS_CAP_ERRORPALSAVE', 'LongInt'( 405);
11759: 'IDS_CAP_ERRORDIBSAVE', 'LongInt'( 406);
11760: 'IDS_CAP_DEFAVIEXT', 'LongInt'( 407);
11761: 'IDS_CAP_DEFPALEXT', 'LongInt'( 408);
11762: 'IDS_CAP_CANTOPEN', 'LongInt'( 409);
11763: 'IDS_CAP_SEQ_MSGSTART', 'LongInt'( 410);
11764: 'IDS_CAP_SEQ_MSGSTOP', 'LongInt'( 411);
11765: 'IDS_CAP_VIDEODITERR', 'LongInt'( 412);
11766: 'IDS_CAP_READONLYFILE', 'LongInt'( 413);
11767: 'IDS_CAP_WRITEERROR', 'LongInt'( 414);
11768: 'IDS_CAP_NODISKSPACE', 'LongInt'( 415);
11769: 'IDS_CAP_SETFILESIZE', 'LongInt'( 416);
11770: 'IDS_CAP_SAVEASPERCENT', 'LongInt'( 417);
11771: 'IDS_CAP_DRIVER_ERROR', 'LongInt'( 418);
11772: 'IDS_CAP_WAVE_OPEN_ERROR', 'LongInt'( 419);
11773: 'IDS_CAP_WAVE_ALLOC_ERROR', 'LongInt'( 420);
11774: 'IDS_CAP_WAVE_PREPARE_ERROR', 'LongInt'( 421);
11775: 'IDS_CAP_WAVE_ADD_ERROR', 'LongInt'( 422);
11776: 'IDS_CAP_WAVE_SIZE_ERROR', 'LongInt'( 423);
11777: 'IDS_CAP_VIDEO_OPEN_ERROR', 'LongInt'( 424);
11778: 'IDS_CAP_VIDEO_ALLOC_ERROR', 'LongInt'( 425);
11779: 'IDS_CAP_VIDEO_PREPARE_ERROR', 'LongInt'( 426);
11780: 'IDS_CAP_VIDEO_ADD_ERROR', 'LongInt'( 427);
11781: 'IDS_CAP_VIDEO_SIZE_ERROR', 'LongInt'( 428);
11782: 'IDS_CAP_FILE_OPEN_ERROR', 'LongInt'( 429);
11783: 'IDS_CAP_FILE_WRITE_ERROR', 'LongInt'( 430);
11784: 'IDS_CAP_RECORDING_ERROR', 'LongInt'( 431);
11785: 'IDS_CAP_RECORDING_ERROR2', 'LongInt'( 432);
11786: 'IDS_CAP_AVI_INIT_ERROR', 'LongInt'( 433);
11787: 'IDS_CAP_NO_FRAME_CAP_ERROR', 'LongInt'( 434);
11788: 'IDS_CAP_NO_PALETTE_WARN', 'LongInt'( 435);
11789: 'IDS_CAP_MCI_CONTROL_ERROR', 'LongInt'( 436);
11790: 'IDS_CAP_MCI_CANT_STEP_ERROR', 'LongInt'( 437);
11791: 'IDS_CAP_NO_AUDIO_CAP_ERROR', 'LongInt'( 438);
11792: 'IDS_CAP_AVI_DRAWDIB_ERROR', 'LongInt'( 439);
11793: 'IDS_CAP_COMPRESSOR_ERROR', 'LongInt'( 440);
11794: 'IDS_CAP_AUDIO_DROP_ERROR', 'LongInt'( 441);
11795: 'IDS_CAP_STAT_LIVE_MODE', 'LongInt'( 500);
11796: 'IDS_CAP_STAT_OVERLAY_MODE', 'LongInt'( 501);
11797: 'IDS_CAP_STAT_CAP_INIT', 'LongInt'( 502);
11798: 'IDS_CAP_STAT_CAP_FINI', 'LongInt'( 503);
11799: 'IDS_CAP_STAT_PALETTE_BUILD', 'LongInt'( 504);
11800: 'IDS_CAP_STAT_OPTPAL_BUILD', 'LongInt'( 505);
11801: 'IDS_CAP_STAT_I_FRAMES', 'LongInt'( 506);
11802: 'IDS_CAP_STAT_L_FRAMES', 'LongInt'( 507);
11803: 'IDS_CAP_STAT_CAP_L_FRAMES', 'LongInt'( 508);
11804: 'IDS_CAP_STAT_CAP_AUDIO', 'LongInt'( 509);
11805: 'IDS_CAP_STAT_VIDEOCURRENT', 'LongInt'( 510);
11806: 'IDS_CAP_STAT_VIDEOAUDIO', 'LongInt'( 511);
11807: 'IDS_CAP_STAT_VIDEOONLY', 'LongInt'( 512);
11808: 'IDS_CAP_STAT_FRAMESDROPPED', 'LongInt'( 513);
11809: 'AVICAP32', 'String 'AVICAP32.dll'
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11810: end;
11811:
11812: procedure SIRegister_ALFcnsMisc(CL: TPSPascalCompiler);
11813: begin
11814:   Function ALBoolToInt( Value : Boolean ) : Integer
11815:   Function ALMediumPos( LTotal, LBorder, LObject : integer ) : Integer
11816:   Function AlIsValidEmail( const Value : AnsiString ) : boolean
11817:   Function AlLocalDateTimeToGMTDate( const aLocalDateTime : TDateTime ) : TdateTime
11818:   Function ALInc( var x : integer; Count : integer ) : Integer
11819:   function ALCopyStr(const SourceString: AnsiString; aStart, aLength: Integer): AnsiString
11820:   function ALGetStringFromFile(filename: AnsiString; const ShareMode: Word = fmShareDenyWrite):AnsiString;
11821:   procedure ALSaveStringToFile(Str: AnsiString; filename: AnsiString);
11822:   Function ALIsInteger(const S: AnsiString): Boolean;
11823:   function ALIsDecimal(const S: AnsiString): boolean;
11824:   Function ALStringToWideString(const S: AnsiString; const aCodePage: Word): WideString;
11825:   function AlWideStringToString(const WS: WideString; const aCodePage: Word): AnsiString;
11826:   function ALQuotedStr(const S: AnsiString; const Quote: AnsiChar = ''): AnsiString;
11827:   function ALDequotedStr(const S: AnsiString; AQuote: AnsiChar): AnsiString;
11828:   function ALUTF8removeBOM(const S: AnsiString): AnsiString;
11829:   Function ALRandomStr1(const aLength: Longint; const aCharset: Array of Char): AnsiString;
11830:   Function ALRandomStr(const aLength: Longint): AnsiString;
11831:   Function ALRandomStrU1(const aLength: Longint; const aCharset: Array of Char): String;
11832:   Function ALRandomStrU(const aLength: Longint): String;
11833: end;
11834:
11835: procedure SIRegister_ALJSONDoc(CL: TPSPascalCompiler);
11836: begin
11837:   Procedure ALJSONToTStrings(const AJsonStr:AnsiString;aLst:TALStrings; const aNullStr:AnsiString;const aTrueStr: AnsiString; const aFalseStr : AnsiString)
11838: end;
11839:
11840: procedure SIRegister_ALWindows(CL: TPSPascalCompiler);
11841: begin
11842:   _ALMEMORYSTATUSEX', 'record dwLength : DWORD; dwMemoryLoad : DWO'
11843:   +'RD; ullTotalPhys : Int64; ullAvailPhys : Int64; ullTotalPageFile : Int64; '
11844:   +'ullAvailPageFile : Int64; ullTotalVirtual : Int64; ullAvailVirtual : Int64'
11845:   +'; ullAvailExtendedVirtual : Int64; end
11846:   TALMemoryStatusEx', '_ALMEMORYSTATUSEX
11847:   Function ALGlobalMemoryStatusEx( var lpBuffer : TALMEMORYSTATUSEX ) : BOOL
11848:   Function ALInterlockedExchange64( var Target : LONGLONG; Value : LONGLONG ) : LONGLONG
11849:   'INVALID_SET_FILE_POINTER','LongInt'( DWORD ( - 1 ) );
11850:   'QUOTA_LIMITS_HARDWS_MIN_DISABLE','LongWord').SetUInt( $2);
11851:   'QUOTA_LIMITS_HARDWS_MIN_ENABLE','LongWord').SetUInt( $1);
11852:   'QUOTA_LIMITS_HARDWS_MAX_DISABLE','LongWord').SetUInt( $8);
11853:   'QUOTA_LIMITS_HARDWS_MAX_ENABLE','LongWord').SetUInt( $4);
11854: end;
11855:
11856: procedure SIRegister_IPCThrd(CL: TPSPascalCompiler);
11857: begin
11858:   SIRegister_THandledObject(CL);
11859:   SIRegister_TEvent(CL);
11860:   SIRegister_TMutex(CL);
11861:   SIRegister_TSharedMem(CL);
11862:   'TRACE_BUF_SIZE','LongInt'( 200 * 1024 );
11863:   'TRACE_BUFFER','String 'TRACE_BUFFER
11864:   'TRACE_MUTEX','String 'TRACE_MUTEX
11865:   //PTTraceEntry', '^TTraceEntry // will not work
11866:   SIRegister_TIPCTracer(CL);
11867:   'MAX_CLIENTS','LongInt'( 6 );
11868:   'IPCTIMEOUT','LongInt'( 2000 );
11869:   'IPCBUFFER_NAME','String 'BUFFER_NAME
11870:   'BUFFER_MUTEX_NAME','String 'BUFFER_MUTEX
11871:   'MONITOR_EVENT_NAME','String 'MONITOR_EVENT
11872:   'CLIENT_EVENT_NAME','String 'CLIENT_EVENT
11873:   'CONNECT_EVENT_NAME','String 'CONNECT_EVENT
11874:   'CLIENT_DIR_NAME','String 'CLIENT_DIRECTORY
11875:   'CLIENT_DIR_MUTEX','String 'DIRECTORY_MUTEX
11876:   FindClass('TOBJECT'),'EMonitorActive
11877:   FindClass('TOBJECT'),'TIPCThread
11878:   TEventKind', '( evMonitorAttach, evMonitorDetach, evMonitorSignal'
11879:   +'l, evMonitorExit, evClientStart, evClientStop, evClientAttach, evClientDet'
11880:   +'ach, evClientSwitch, evClientSignal, evClientExit )
11881:   TClientFlag', '( cfError, cfMouseMove, cfMouseDown, cfResize, cfAttach )
11882:   TClientFlags', 'set of TClientFlag
11883:   //PEventData', '^TEventData // will not work
11884:   TEventData', 'record X : SmallInt; Y : SmallInt; Flag : TClientF'
11885:   +'lag; Flags : TClientFlags; end
11886:   TConnectEvent', 'Procedure ( Sender : TIPCThread; Connecting : Boolean)
11887:   TDirUpdateEvent', 'Procedure ( Sender : TIPCThread)
11888:   TIPCNotifyEvent', 'Procedure ( Sender : TIPCThread; Data : TEventData)
11889:   //TIPCEventInfo', '^TIPCEventInfo // will not work
11890:   TIPCEventInfo', 'record FID:Integer; FKind:TEventKind; FData:TEventData;end
11891:   SIRegister_TIPCEvent(CL);
11892:   //PClientDirRecords', '^TClientDirRecords // will not work
11893:   SIRegister_TClientDirectory(CL);
11894:   TIPCState', '( stInactive, stDisconnected, stConnected )
11895:   SIRegister_TIPCThread(CL);
11896:   SIRegister_TIPCMonitor(CL);
11897:   SIRegister_TIPCCClient(CL);

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11898: Function IsMonitorRunning( var Hndl : THandle ) : Boolean
11899: end;
11900:
11901: (*-----*)
11902: procedure SIRegister_ALGSMComm(CL: TPSPascalCompiler);
11903: begin
11904:   SIRegister_TALGSMComm(CL);
11905:   Function ALGSMComm_BuildPDUMessage( aSMSCenter, aSMSAddress, aMessage : AnsiString ) : AnsiString
11906:   Procedure ALGSMComm_DecodePDUMessage(aPDUMessage:AnsiString;var aSMSCenter,aSMSAddress,
11907:     AMessage:AnsiString);
11908:   Function ALGSMComm_UnicodeToGSM7BitDefaultAlphabet( aMessage : WideString ) : AnsiString
11909:   Function ALGSMComm_GSM7BitDefaultAlphabetToUnicode(aMess:AnsiString;const
11910:     UseGreekAlphabet:Bool):Widestring;
11911:   function ALMatchesMask(const Filename, Mask: AnsiString): Boolean;
11912: end;
11913:
11914: procedure SIRegister_ALHttpCommon(CL: TPSPascalCompiler);
11915: begin
11916:   TALHTTPPropertyChangeEvent', 'Procedure(sender:Tobject;const PropertyIndex:Integer;
11917:   TALHTTPProtocolVersion', '( HTTPPpv_1_0, HTTPPpv_1_1 )
11918:   TALHTTPMethod', '(HTTPPmt_Get,HTTPPmt_Post,HTTPPmt_Head,HTTPPmt_Trace,HTTPPmt_Put,HTTPPmt_Delete);
11919:   TIInternetScheme', 'integer
11920:   TALIPv6Binary', 'array[1..16] of Char;
11921:   // TALIPv6Binary = array[1..16] of ansiChar;
11922:   // TIInternetScheme = Integer;
11923:   SIRegister_TALHTTPRequestHeader(CL);
11924:   SIRegister_TALHTTPCookie(CL);
11925:   SIRegister_TALHTTPCookieCollection(CL);
11926:   SIRegister_TALHTTPResponseHeader(CL);
11927:   Function ALHTTPDecode( const AStr : AnsiString ) : AnsiString
11928:   Procedure ALHTTPEncodeParamNameValues( ParamValues : TALStrings )
11929:   // Procedure ALExtractHTTPFields(Separators,WhiteSpace, Quotes:TSysCharSet;
11930:   Content:PAnsiChar;Strings:TALStrings;StripQuotes:Boolean;
11931:   // Procedure ALExtractHeaderFields( Separators,WhiteSpace, Quotes : TSysCharSet; Content : PAnsiChar;
11932:   Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11933:   // Procedure ALExtractHeaderFieldsWithQuoteEscaped(Separators,WhiteSpace,
11934:   Quotes:TSysCharSet;Content:PAnsiChar;Strings : TALStrings; Decode : Boolean; StripQuotes : Boolean)
11935:   Function AlRemoveShemeFromUrl( aUrl : AnsiString ) : ansiString
11936:   Function AlExtractShemeFromUrl( aUrl : AnsiString ) : TIInternetScheme
11937:   Function AlExtractHostNameFromUrl( aUrl : AnsiString ) : AnsiString
11938:   Function AlExtractDomainNameFromUrl( aUrl : AnsiString ) : AnsiString
11939:   Function AlExtractUrlPathFromUrl( aUrl : AnsiString ) : AnsiString
11940:   Function AlInternetCrackUrl( aUrl : AnsiString; var SchemeName,HostName,UserName,Password,UrlPath,
11941:   ExtraInfo : AnsiString; var PortNumber : integer ) : Boolean;
11942:   Function AlInternetCrackUrl1( aUrl : AnsiString; var SchemeName, HostName, UserName, Password,UrlPath,
11943:   Anchor : AnsiString; Query : TALStrings; var PortNumber : integer ) : Boolean;
11944:   Function ALGmtDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11945:   Function ALDateTimeToRfc822Str( const aValue : TDateTime ) : AnsiString
11946:   Function ALTryRfc822StrToGMTDate( const S : AnsiString; out Value : TDateTime ) : Boolean
11947:   Function ALRfc822StrToGMTDate( const s : AnsiString ) : TDateTime
11948:   Function ALTryIPV4StrToNumeric( aIPV4Str : ansiString; var aIPV4Num : Cardinal ) : Boolean
11949:   Function ALIPV4StrToNumeric( aIPV4 : ansiString ) : Cardinal
11950:   Function ALNumericToIPV4Str( aIPV4 : Cardinal ) : ansiString
11951:   Function ALZeroIpV6 : TALIPv6Binary
11952:   Function ALTryIPV6StrToBinary( aIPV6Str : ansiString; var aIPV6Bin : TALIPv6Binary ) : Boolean
11953:   Function ALIPV6StrTobinary( aIPV6 : ansiString ) : TALIPv6Binary
11954:   Function ALBinaryToIPV6Str( aIPV6 : TALIPv6binary ) : ansiString
11955:   Function ALBinaryStrToIPV6Binary( aIPV6BinaryStr : ansiString ) : TALIPv6Binary
11956: end;
11957:
11958: procedure SIRegister_ALFcHTML(CL: TPSPascalCompiler);
11959: begin
11960:   Procedure ALUTF8ExtractHTMLText(HtmlCont:AnsiStr;LstExtractedResourceText:TALStrings;const
11961:     DecodeHTMLText:Bool;
11962:   Function ALUTF8ExtractHTMLText1(HtmlContent:AnsiString;const DecodeHTMLText:Boolean): AnsiString;
11963:   Function ALXMLDecodeElementEncode( Src : AnsiString ) : AnsiString
11964:   Function ALXMLTextElementEncode(Src : AnsiString; const useNumericReference : boolean) : AnsiString
11965:   Function ALUTF8XMLElementDecode( const Src : AnsiString ) : AnsiString
11966:   Function ALUTF8HTMLDecode( const Src:AnsiStr;const EncodeASCIIHtmlEntities:Bool;const
11967:     useNumRef:bool):AnsiString;
11968:   Function ALUTF8HTMLDecode( const Src : AnsiString ) : AnsiString
11969:   Function ALJavascriptEncode( const Src : AnsiString; const useNumericReference : boolean) : AnsiString
11970:   Function ALUTF8JavascriptDecode( const Src : AnsiString ) : AnsiString
11971:   Procedure ALHideHtmlUnwantedTagForHTMLHandleTagfunct(var HtmlContent:AnsiString; const
11972:     DeleteBodyOfUnwantedTag : Boolean; const ReplaceUnwantedTagCharBy : AnsiChar)
11973:   Procedure ALCompactHTMLTagParams( TagParams : TALStrings )
11974: end;
11975:
11976: procedure SIRegister_ALInternetMessageCommon(CL: TPSPascalCompiler);
11977: begin
11978:   SIRegister_TALEMailHeader(CL);
11979:   SIRegister_TALNewsArticleHeader(CL);
11980:   Function AlParseEmailAddress(FriendlyEmail:AnsiString;var RealName:AString;const
11981:     decodeRealName:Bool):AnsiString;

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11976: Function AlExtractEmailAddress( FriendlyEmail : AnsiString ) : AnsiString
11977: Function ALMakeFriendlyEmailAddress( aRealName, aEmail : AnsiString ) : AnsiString
11978: Function ALEncodeRealName4FriendlyEmailAddress( aRealName : AnsiString ) : AnsiString
11979: Function AlGenerateInternetMessageID : AnsiString;
11980: Function AlGenerateInternetMessageID1( ahostname : AnsiString ) : AnsiString;
11981: Function ALDecodeQuotedPrintableString( src : AnsiString ) : AnsiString
11982: Function AlDecodeInternetMessageHeaderInUTF8(aHeaderStr:AnsiString;aDefaultCodePage:Integer):AnsiString;
11983: end;
11984:
11985: (*-----*)
11986: procedure SIRegister_ALFcnsWinSock(CL: TPSPPascalCompiler);
11987: begin
11988:   Function ALHostToIP( HostName : AnsiString; var Ip : AnsiString):Boolean
11989:   Function ALIPAddrToName( IPAddr : AnsiString ) : AnsiString
11990:   Function ALgetLocalIPs : TALStrings
11991:   Function ALgetLocalHostName : AnsiString
11992: end;
11993:
11994: procedure SIRegister_ALFcncCGI(CL: TPSPPascalCompiler);
11995: begin
11996:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest(WebRequest : TALWebRequest;ServerVariables:TALStrings);
11997:   Procedure ALCGIInitDefaultServerVariablesFromWebRequest1(WebRequest: TALWebRequest; ServerVariables : TALStrings; ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
11998:   Procedure ALCGIInitDefaultServerVariables( ServerVariables : TALStrings );
11999:   Procedure ALCGIInitDefaultServerVariables1(ServerVars:TALStrings;ScriptName,
12000:   ScriptFileName:AnsiString;Url:Ansistr;
12001:   Procedure ALCGIInitServerVariablesFromWebRequest( WebRequest:TALWebRequest; ServerVariables : TALStrings;
12002:   ScriptName, ScriptFileName : AnsiString; Url : AnsiString);
12003:   Procedure ALCGIEexec( InterpreterFilename : AnsiString; ServerVariables : TALStrings; RequestContentStream
12004:   : Tstream; ResponseContentStream : Tstream; ResponseHeader : TALHTTPResponseHeader);
12005:   Procedure ALCGIEexec1( ScriptName,ScriptFileName , Url, X_REWRITE_URL, InterpreterFilename:AnsiString;
12006:   WebRequest : TALIsapiRequest;
12007:   overloadedCookies:AnsiString;overloadedQueryString:AnsiString;overloadedReferer: AnsiString;
12008:   +'overloadedRequestContentStream:Tstream;var
12009:   ResponseContentStr:AnsiString;ResponseHeader:TALHTTPResponseHeader;
12010:   Procedure ALCGIEexec2( ScriptName,ScriptFileName ,Url,X_REWRITE_URL,
12011:   InterpreterFilename:AnsiString;WebRequest: TALIsapiRequest; var ResponseContentString : AnsiString;
12012:   ResponseHeader : TALHTTPResponseHeader);
12013: end;
12014:
12015: procedure SIRegister_ALFcnsExecute(CL: TPSPPascalCompiler);
12016: begin
12017:   TStartupInfoA', 'TStartupInfo
12018:   'SE_CREATE_TOKEN_NAME', 'String'( 'SeCreateTokenPrivilege
12019:   SE_ASSIGNPRIMARYTOKEN_NAME', 'String' SeAssignPrimaryTokenPrivilege
12020:   SE_LOCK_MEMORY_NAME', 'String'( 'SeLockMemoryPrivilege
12021:   SE_INCREASE_QUOTA_NAME', 'String' SeIncreaseQuotaPrivilege
12022:   SE_UNSOLICITED_INPUT_NAME', 'String' SeUnsolicitedInputPrivilege
12023:   SE_MACHINE_ACCOUNT_NAME', 'String' SeMachineAccountPrivilege
12024:   SE_TCB_NAME', 'String' SeTcbPrivilege
12025:   SE_SECURITY_NAME', 'String' SeSecurityPrivilege
12026:   SE TAKE OWNERSHIP_NAME', 'String' SeTakeOwnershipPrivilege
12027:   SE_LOAD_DRIVER_NAME', 'String' SeLoadDriverPrivilege
12028:   SE_SYSTEM_PROFILE_NAME', 'String' SeSystemProfilePrivilege
12029:   SE_SYSTEMTIME_NAME', 'String' SeSystemtimePrivilege
12030:   SE_PROF_SINGLE_PROCESS_NAME', 'String' SeProfileSingleProcessPrivilege
12031:   SE_INC_BASE_PRIORITY_NAME', 'String' SeIncreaseBasePriorityPrivilege
12032:   SE_CREATE_PAGEFILE_NAME', 'String' SeCreatePagefilePrivilege
12033:   SE_CREATE_PERMANENT_NAME', 'String' SeCreatePermanentPrivilege
12034:   SE_BACKUP_NAME', 'String' SeBackupPrivilege
12035:   SE_RESTORE_NAME', 'String' SeRestorePrivilege
12036:   SE_SHUTDOWN_NAME', 'String' SeShutdownPrivilege
12037:   SE_DEBUG_NAME', 'String' SeDebugPrivilege
12038:   SE_AUDIT_NAME', 'String' SeAuditPrivilege
12039:   SE_SYSTEM_ENVIRONMENT_NAME', 'String' SeSystemEnvironmentPrivilege
12040:   SE_CHANGE_NOTIFY_NAME', 'String' SeChangeNotifyPrivilege
12041:   SE_REMOTE_SHUTDOWN_NAME', 'String' SeRemoteShutdownPrivilege
12042:   SE_UNDOCK_NAME', 'String' SeUndockPrivilege
12043:   SE_SYNC_AGENT_NAME', 'String' SeSyncAgentPrivilege
12044:   SE_ENABLE_DELEGATION_NAME', 'String' SeEnableDelegationPrivilege
12045:   SE_MANAGE_VOLUME_NAME', 'String' SeManageVolumePrivilege
12046:   Function AlGetEnvironmentString : AnsiString
12047:   Function ALWinExec32( const FileName,CurrentDir,
12048:   Environment:AnsiString;InStream:Tstream;OutStream:TStream ):Dword;
12049:   Function ALWinExec321( const FileName:AnsiString; InputStream:Tstream;OutputStream:TStream ):Dword;
12050:   Function ALWinExecAndWait32( FileName : AnsiString; Visibility : integer ) : DWORD
12051:   Function ALWinExecAndWait32V2( FileName : AnsiString; Visibility : integer ) : DWORD
12052:   Function ALNTSetPrivilege( sPrivilege : AnsiString; bEnabled : Boolean ) : Boolean
12053: end;
12054:
12055: procedure SIRegister_ALFcnsFile(CL: TPSPPascalCompiler);
12056: begin
12057:   Function AlEmptyDirectory(Directory:ansiString;SubDirectory:Bool;IgnoreFiles:array of AnsiString; const
12058:   RemoveEmptySubdirectory : Boolean; const FileNameMask : ansistring; const MinFileAge : TdateTime):Boolean;
12059:   Function AlEmptyDirectory1( Directory : ansiString; SubDirectory : Boolean; const
12060:   RemoveEmptySubdirectory:Bool; const FileNameMask : ansistring; const MinFileAge : TdateTime ) : Boolean;
12061:   Function AlCopyDirectory( SrcDirectory, DestDirectory : ansiString; SubDirectory : Boolean; const
12062:   FileNameMask : ansiString; const FailIfExists : Boolean ) : Boolean

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12051: Function ALGetModuleName : ansistring
12052: Function ALGetModuleFileNameWithoutExtension : ansistring
12053: Function ALGetModulePath : ansiString
12054: Function ALGetSize( const AFileName : ansistring ) : int64
12055: Function ALGetFileVersion( const AFileName : ansistring ) : ansiString
12056: Function ALGetFileCreationDateTime( const aFileName : Ansistring ) : TDateTime
12057: Function ALGetFileLastWriteDateTime( const aFileName : Ansistring ) : TDateTime
12058: Function ALGetFileLastAccessDateTime( const aFileName : Ansistring ) : TDateTime
12059: Procedure ALSetFileCreationDateTime( const aFileName : Ansistring; const aCreationDateTime : TDateTime )
12060: Function ALIsDirectoryEmpty( const directory : ansiString ) : boolean
12061: Function ALFFileExists( const Path : ansiString ) : boolean
12062: Function ALDirectoryExists( const Directory : Ansistring ) : Boolean
12063: Function ALCreateDir( const Dir : Ansistring ) : Boolean
12064: Function ALRemoveDir( const Dir : Ansistring ) : Boolean
12065: Function ALDeleteFile( const FileName : Ansistring ) : Boolean
12066: Function ALRenameFile( const OldName, NewName : ansistring ) : Boolean
12067: end;
12068:
12069: procedure SIRegister_ALFcN_mime(CL: TPSPascalCompiler);
12070: begin
12071:   NativeInt', 'Integer
12072:   NativeUInt', 'Cardinal
12073:   Function ALMimeBase64EncodeString( const S : AnsiString ) : AnsiString
12074:   Function ALMimeBase64EncodeStringNoCRLF( const S : AnsiString ) : AnsiString
12075:   Function ALMimeBase64DecodeString( const S : AnsiString ) : AnsiString
12076:   Function ALMimeBase64EncodedSize( const InputSize : NativeInt ) : NativeInt
12077:   Function ALMimeBase64EncodedSizeNoCRLF( const InputSize : NativeInt ) : NativeInt
12078:   Function ALMimeBase64DecodedSize( const InputSize : NativeInt ) : NativeInt
12079:   Procedure ALMimeBase64Encode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12080:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12081:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt )
12082:   Function ALMimeBase64Decode( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt ) : NativeInt;
12083:   Function ALMimeBase64DecodePartial( const InputBuffer : TByteDynArray; InputOffset : NativeInt; const
InputByteCount : NativeInt; out OutputBuffer : TByteDynArray; OutputOffset : NativeInt );
12084:   + 'var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal) : NativeInt;
12085:   Function ALMimeBase64DecodePartialEnd( out OutputBuffer : TByteDynArray; OutputOffset : NativeInt; const
ByteBuffer : Cardinal; const ByteBufferSpace : Cardinal ) : NativeInt;
12086:   Procedure ALMimeBase64Encode( const InputBuf:TByteDynArray;const InputByteCnt:NatInt;out
OutputBuf:TByteDynArray );
12087:   Procedure ALMimeBase64EncodeNoCRLF( const InputBuffer:TByteDynArray; const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray );
12088:   Procedure ALMimeBase64EncodeFullLines( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray );
12089:   Function ALMimeBase64Decode( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer:TByteDynArray ):NativeInt;
12090:   Function ALMimeBase64DecodePartial( const InputBuffer:TByteDynArray;const InputByteCount:NativeInt;out
OutputBuffer: TByteDynArray; var ByteBuffer : Cardinal; var ByteBufferSpace : Cardinal ) : NativeInt;
12091:   Function ALMimeBase64DecodePartialEndl( out OutputBuffer:TByteDynArray;const ByteBuffer:Cardinal;const
ByteBufferSpace:Cardinal):NativeInt;
12092:   Procedure ALMimeBase64EncodeFile( const InputFileName, OutputFileName : TFileName )
12093:   Procedure ALMimeBase64EncodeFileNoCRLF( const InputFileName, OutputFileName : TFileName )
12094:   Procedure ALMimeBase64DecodeFile( const InputFileName, OutputFileName : TFileName )
12095:   Procedure ALMimeBase64EncodeStream( const InputStream : TStream; const OutputStream : TStream )
12096:   Procedure ALMimeBase64EncodeStreamNoCRLF( const InputStream : TStream; const OutputStream : TStream )
12097:   Procedure ALMimeBase64DecodeStream( const InputStream : TStream; const OutputStream : TStream )
12098:   'cALMimeBase64_ENCODED_LINE_BREAK', 'LongInt'( 76 );
12099:   'cALMimeBase64_DECODED_LINE_BREAK', 'LongInt'( cALMimeBase64_ENCODED_LINE_BREAK div 4 * 3 );
12100:   'cALMimeBase64_BUFFER_SIZE', 'LongInt'( cALMimeBase64_DECODED_LINE_BREAK * 3 * 4 * 4 );
12101:   Procedure ALFillMimeContentTypeByExtList( AMIMELIST : TALStrings )
12102:   Procedure ALFillExtByMimeContentTypeList( AMIMEList : TALStrings )
12103:   Function ALGetDefaultFileExtFromMimeType( aContentType : AnsiString ) : AnsiString
12104:   Function ALGetDefaultMIMEContentTypeFromExt( aExt : AnsiString ) : AnsiString
12105: end;
12106:
12107: procedure SIRegister_ALX xmlDoc(CL: TPSPascalCompiler);
12108: begin
12109:   'cALXMLNodeMaxListSize','LongInt'( Maxint div 16 );
12110:   FindClass('TOBJECT'), 'TALXMLNode
12111:   FindClass('TOBJECT'), 'TALXMLNodeList
12112:   FindClass('TOBJECT'), 'TALXMLDocument
12113:   TALXMLParseProcessingInstructionEvent', 'Procedure ( Sender:TObject; const Target,Data:Ansistring )
12114:   TALXMLParseTextEvent', 'Procedure ( Sender : TObject; const str: AnsiString )
12115:   TALXMLParseStartElementEvent', 'Procedure ( Sender : TObject; co'
12116:   + 'nst Name : AnsiString; const Attributes : TALStrings )
12117:   TALXMLParseEndElementEvent', 'Procedure ( Sender : TObject; const Name : AnsiString )
12118:   TALXMLNodeType', '( ntReserved, ntElement, ntAttribute, ntText, '
12119:   + 'ntCDATA, ntEntityRef, ntEntity, ntProcessingInstr, ntComment, ntDocument, '
12120:   + 'ntDocType, ntDocFragment, ntNotation )
12121:   TALXMLDocOption', '( doNodeAutoCreate, doNodeAutoIndent )
12122:   TALXMLDocOptions', 'set of TALXMLDocOption
12123:   TALXMLParseOption', '( poPreserveWhiteSpace, poIgnoreXMLReferences )
12124:   TALXMLParseOptions', 'set of TALXMLParseOption
12125:   TALXMLPrologItem', '( xpVersion, xpEncoding, xpStandalone )
12126:   PALPointerXMLNodeList', '^PALPointerXMLNodeList // will not work
12127:   SIRegister_EALXMLDocError(CL);

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12128: SIRегистre_TALXMLElementNode(CL);
12129: SIRегистre_TALXMLEntryRefNode(CL);
12130: SIRегистre_TALXMLEntryNode(CL);
12131: SIRегистre_TALXMLEntryTextNode(CL);
12132: SIRегистre_TALXMLEntryAttributeNode(CL);
12133: SIRегистре_TALXMLEntryDocumentNode(CL);
12134: SIRегистре_TALXMLEntryCommentNode(CL);
12135: SIRегистре_TALXMLEntryProcessingInstrNode(CL);
12136: SIRегистре_TALXMLEntryCDataNode(CL);
12137: SIRегистре_TALXMLEntryEntityRefNode(CL);
12138: SIRегистре_TALXMLEntryEntityNode(CL);
12139: SIRегистре_TALXMLEntryDocTypeNode(CL);
12140: SIRегистре_TALXMLEntryDocFragmentNode(CL);
12141: SIRегистре_TALXMLEntryNotationNode(CL);
12142: SIRегистре_TALXMLEntryDocument(CL);
12143: cALXMLUTF8EncodingStr', 'String 'UTF-8
12144: cALXMLUTF8HeaderStr', 'String '<?xmlversion="1.0"encoding="UTF-8"standalone="yes"?>' + #13#10);
12145: CALNSDelim', 'String ': 
12146: CALXML', 'String 'xml
12147: CALVersion', 'String 'version
12148: CALEncoding', 'String 'encoding
12149: CALStandalone', 'String 'standalone
12150: CALDefaultNodeIndent', 'String '
12151: CALXmldocument', 'String 'DOCUMENT
12152: Function ALCreateEmptyXMLDocument( const Rootname : AnsiString ) : TALXMLEntryDocument
12153: Procedure ALClearXMLDocument( const rootname:AnsiString;xmldoc:TALXMLEntryDocument;const
EncodingStr:AnsiString );
12154: Function ALFindXmlNodeByChildNodeValue( xmlrec:TALXMLEntryNode;const ChildNodeName,
ChildNodeValue:AnsiString;const Recurse: Boolean ) : TALXMLEntryNode
12155: Function ALFindXmlNodeByNameAndChildNodeValue( xmlrec : TALXMLEntryNode; const NodeName : ansiString; const
ChildNodeName, ChildNodeValue : AnsiString; const Recurse : Boolean ) : TALXMLEntryNode
12156: Function ALFindXmlNodeByAttribute( xmlrec:TALXMLEntryNode;const AttributeName,AttributeValue:AnsiString;const
Recurse: Boolean ):TALXMLEntryNode
12157: Function ALFindXmlNodeByNameAndAttribute( xmlrec : TALXMLEntryNode; const NodeName : ansiString; const
AttributeName,AttributeValue : AnsiString; const Recurse : Boolean ) : TALXMLEntryNode
12158: Function ALExtractAttrValue( const AttrName, AttrLine : AnsiString; const Default : AnsiString ) :
AnsiString
12159: end;
12160:
12161: procedure SIRегистре_TeCanvas(CL: TPSPPascalCompiler);
12162: //based on TEEProc, TeCanvas, TEEEngine, TChart
12163: begin
12164: 'TeePiStep','Double').setExtended( Pi / 180.0 );
12165: 'TeeDefaultPerspective','LongInt'( 100 );
12166: 'TeeMinAngle','LongInt'( 270 );
12167: 'teeclMoneyGreen','LongWord').SetUInt( TColor( $C0DCC0 ) );
12168: 'teeclSkyBlue','LongWord').SetUInt( TColor( $FOCAA6 ) );
12169: 'teeclCream','LongWord( TColor( $FOFBFF ) );
12170: 'teeclMedGray','LongWord').SetUInt( TColor( $A4A0A0 ) );
12171: 'teeclMoneyGreen','LongWord').SetUInt( TColor( $C0DCC0 ) );
12172: 'teeclSkyBlue','LongWord').SetUInt( TColor( $FOCAA6 ) );
12173: 'teeclCream','LongWord').SetUInt( TColor( $FOFBFF ) );
12174: 'teeclMedGray','LongWord').SetUInt( TColor( $A4A0A0 ) );
12175: 'TA_LEFT','LongInt'( 0 );
12176: 'TA_RIGHT','LongInt'( 2 );
12177: 'TA_CENTER','LongInt'( 6 );
12178: 'TA_TOP','LongInt'( 0 );
12179: 'TA_BOTTOM','LongInt'( 8 );
12180: 'teePATCOPY','LongInt'( 0 );
12181: 'NumCirclePoints','LongInt'( 64 );
12182: 'teeDEFAULT_CHARSET','LongInt'( 1 );
12183: 'teeANTIALIASSED_QUALITY','LongInt'( 4 );
12184: 'TA_LEFT','LongInt'( 0 );
12185: 'bs_Solid','LongInt'( 0 );
12186: 'teepf24Bit','LongInt'( 0 );
12187: 'teepfDevice','LongInt'( 1 );
12188: 'CM_MOUSELEAVE','LongInt'( 10000 );
12189: 'CM_SYSCOLORCHANGE','LongInt'( 10001 );
12190: 'DC_BRUSH','LongInt'( 18 );
12191: 'DC_PEN','LongInt'( 19 );
12192: teeCOLORREF', 'LongWord
12193: TLogBrush', 'record lbStyle : Integer; lbColor : TColor; lbHatch: Integer; end
12194: //TNotifyEvent', 'Procedure ( Sender : TObject )
12195: SIRегистре_TFilterRegion(CL);
12196: SIRегистре_IFormCreator(CL);
12197: SIRегистре_TTeeFilter(CL);
12198: //TFilterClass', 'class of TTeeFilter
12199: SIRегистре_TFilterItems(CL);
12200: SIRегистре_TConvolveFilter(CL);
12201: SIRегистре_TBlurFilter(CL);
12202: SIRегистре_TTeePicture(CL);
12203: TPenEndStyle', '( esRound, esSquare, esFlat )
12204: SIRегистре_TChartPen(CL);
12205: SIRегистре_TChartHiddenPen(CL);
12206: SIRегистре_TDottedGrayPen(CL);
12207: SIRегистре_TDarkGrayPen(CL);
12208: SIRегистре_TWhitePen(CL);
12209: SIRегистре_TChartBrush(CL);
12210: TTeeView3DScrolled', 'Procedure ( IsHoriz : Boolean)

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12211: TTeeView3DChangedZoom', 'Procedure ( NewZoom : Integer )
12212: SIRegister_TView3DOptions(CL);
12213: FindClass('TOBJECT'), 'T TeeCanvas
12214: TTeeTransparency', 'Integer
12215: SIRegister_TTeeBlend(CL);
12216: FindClass('TOBJECT'), 'TCanvas3D
12217: SIRegister_TTeeShadow(CL);
12218: teeTTeeGradientDirection', '(gdTopBottom, gdBottomTop, gdLeftRight, gdRightLeft, gdFromCenter, gdFromTopLeft,
gdFromBottomLeft, gdRadial, gdDiagonalUp, gdDiagonalDown )'
12219: FindClass('TOBJECT'), 'TSubGradient
12220: SIRegister_TCustomTeeGradient(CL);
12221: SIRegister_TSubGradient(CL);
12222: SIRegister_TTeeGradient(CL);
12223: SIRegister_TTeeFontGradient(CL);
12224: SIRegister_TTeeFont(CL);
12225: TCanvasBackMode', '( cbmNone, cbmTransparent, cbmOpaque )'
12226: TCanvasTextAlign', 'Integer
12227: TTeeCanvasHandle', 'HDC
12228: SIRegister_TTeeCanvas(CL);
12229: TPoint3DFloat', 'record X : Double; Y : Double; Z : Double; end
12230: SIRegister_TFloatXYZ(CL);
12231: TPoint3D', 'record x : integer; y : integer; z : Integer; end
12232: TRGB', 'record blue: byte; green: byte; red: byte; end
12233: {TRGB=packed record
12234:   Blue : Byte;
12235:   Green : Byte;
12236:   Red : Byte;
12237: //$/IFDEF CLX //Alpha : Byte; // Linux end;}
12238:
12239: TTeeCanvasCalcPoints', 'Function ( x, z : Integer; var P0, P1 :
12240:   +'TPoint3D; var Color0, Color1 : TColor) : Boolean
12241: TTeeCanvasSurfaceStyle', '( tcsSolid, tcsWire, tcsDot )
12242: TCanvas3DPlane', '( cpX, cpY, cpZ )
12243: //IInterface', 'IUnknown
12244: SIRegister_TCanvas3D(CL);
12245: SIRegister_TTeeCanvas3D(CL);
12246: TTrianglePoints', 'Array[0..2] of TPoint;
12247: TFourPoints', 'Array[0..3] of TPoint;
12248: Function ApplyDark( Color : TColor; HowMuch : Byte) : TColor
12249: Function ApplyBright( Color : TColor; HowMuch : Byte) : TColor
12250: Function Point3D( const x, y, z : Integer) : TPoint3D
12251: Procedure SwapDouble( var a, b : Double)
12252: Procedure SwapInteger( var a, b : Integer)
12253: Procedure RectSize( const R : TRect; var RectWidth, RectHeight : Integer)
12254: Procedure teeRectCenter( const R : TRect; var X, Y : Integer)
12255: Function RectFromPolygon( const Points : array of TPoint; NumPoints : Integer): TRect
12256: Function RectFromTriangle( const Points : TTrianglePoints) : TRect
12257: Function RectangleInRectangle( const Small, Big : TRect) : Boolean
12258: Procedure ClipCanvas( ACanvas : TCanvas; const Rect : TRect)
12259: Procedure UnClipCanvas( ACanvas : TCanvas)
12260: Procedure ClipEllipse( ACanvas : TTeeCanvas; const Rect : TRect)
12261: Procedure ClipRoundRectangle(ACanvas:TTeeCanvas;const Rect : TRect; RoundSize : Integer)
12262: Procedure ClipPolygon(ACanvas:TTeeCanvas;const Points:array of TPoint;NumPoints:Integer)
12263: 'TeeCharForHeight', 'String 'W
12264: 'DarkerColorQuantity', 'Byte').SetUInt( 128);
12265: 'DarkColorQuantity', 'Byte').SetUInt( 64);
12266: TButtonGetColorProc', 'Function : TColor
12267: SIRegister_TTeeButton(CL);
12268: SIRegister_TButtonColor(CL);
12269: SIRegister_TComboFlat(CL);
12270: Procedure TeeSetTeePen(FPen:TPen; APen : TChartPen; AColor : TColor; Handle:TTeeCanvasHandle)
12271: Function TeePoint( const aX, aY : Integer) : TPoint
12272: Function TEEPointInRect( const Rect : TRect; const P : TPoint) : Boolean;
12273: Function PointInRect1( const Rect : TRect; x, y : Integer) : Boolean;
12274: Function TeeRect( Left, Top, Right, Bottom : Integer) : TRect
12275: Function OrientRectangle( const R : TRect) : TRect
12276: Procedure TeeSetBitmapSize( Bitmap : TBitmap; Width, Height : Integer)
12277: Function PolygonBounds( const P : array of TPoint) : TRect
12278: Function PolygonInPolygon( const A, B : array of TPoint) : Boolean
12279: Function RGBValue( const Color : TColor) : TRGB
12280: Function EditColor( AOwner : TComponent; AColor : TColor) : TColor
12281: Function EditColorDialog( AOwner : TComponent; var AColor : TColor) : Boolean
12282: Function PointAtDistance( AFrom, ATo : TPoint; ADist : Integer) : TPoint
12283: Function TeeCull( const P : TFourPoints) : Boolean;
12284: Function TeeCull1( const P0, P1, P2 : TPoint) : Boolean;
12285: TSmoothStretchOption', '( ssBestQuality, ssBestPerformance )
12286: Procedure SmoothStretch( Src, Dst : TBitmap);
12287: Procedure SmoothStretch1( Src, Dst : TBitmap; Option : TSmoothStretchOption);
12288: Function TeeDistance( const x, y : Double) : Double
12289: Function TeeLoadLibrary( const FileName : String) : HInst
12290: Procedure TeeFreeLibrary( hLibModule : HMODULE)
12291: Procedure TeeBlendBitmaps( const Percent : Double; ABitmap, BBitmap : TBitmap; BOrigin : TPoint)
12292: //Procedure TeeCalcLines( var Lines : TRGBAarray; Bitmap : TBitmap)
12293: Procedure TeeShadowSmooth(Bitmap, Back : TBitmap; Left, Top, Width, Height, horz, vert : Integer;
Smoothness : Double; FullDraw : Boolean; ACanvas : TCanvas3D; Clip : Boolean)
12294: SIRegister_ICanvasHyperlinks(CL);
12295: SIRegister_ICanvasToolTips(CL);
12296: Function Supports( const Instance : IInterface; const IID : TGUID) : Boolean
12297: end;

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

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12382: Function IntersectClipRect( DC : HDC; X1, Y1, X2, Y2 : Integer ) : Integer
12383: Function InvertRgn( DC : HDC; p2 : HRGN ) : BOOL
12384: Function MaskBlt(DestDC:HDC; XDest,YDest,Width,Height:Integer; SrcDC : HDC; XScr, YScr : Integer; Mask : HBITMAP; xMask, yMask : Integer; Rop : DWORD) : BOOL
12385: Function PngBlt(DestDC:HDC;const PtsArray,SrcDC:HDC;XSrc,YSrc,Widt,Heigh:Int;Mask:HBITMAP;xMask,yMask:Int):BOOL;
12386: Function OffsetClipRgn( DC : HDC; XOffset, YOffset : Integer ) : Integer
12387: Function OffsetRgn( RGN : HRGN; XOffset, YOffset : Integer ) : Integer
12388: Function PatBlt( DC : HDC; X, Y, Width, Height : Integer; Rop : DWORD ) : BOOL
12389: Function Pie( DC : HDC; X1, Y1, X2, Y2, X3, Y3, X4, Y4 : Integer ) : BOOL
12390: Function PlayMetaFile( DC : HDC; MF : HMETAFILE ) : BOOL
12391: Function PaintRgn( DC : HDC; RGN : HRGN ) : BOOL
12392: Function PtInRegion( RGN : HRGN; X, Y : Integer ) : BOOL
12393: Function PtVisible( DC : HDC; X, Y : Integer ) : BOOL
12394: Function RectInRegion( RGN : HRGN; const Rect : TRect ) : BOOL
12395: Function RectVisible( DC : HDC; const Rect : TRect ) : BOOL
12396: Function Rectangle( DC : HDC; X1, Y1, X2, Y2 : Integer ) : BOOL
12397: Function RestoreDC( DC : HDC; SavedDC : Integer ) : BOOL
12398: end;
12399:
12400: procedure SIRegister_ovcfiler(CL: TPPSPascalCompiler);
12401: begin
12402:   SIRegister_TOvcAbstractStore(CL);
12403:   //PEXPropInfo', '^TExPropInfo' // will not work
12404:   // 'TExPropInfo', 'record PI : TPropInfo; AObject : TObject; end
12405:   SIRegister_TOvcPropertyList(CL);
12406:   SIRegister_TOvcDataFiler(CL);
12407:   Procedure UpdateStoredList( AForm : TWinControl; AStoredList : TStrings; FromForm : Boolean )
12408:   Procedure UpdateStoredList1( AForm : TCustomForm; AStoredList : TStrings; FromForm : Boolean )
12409:   Function CreateStoredItem( const CompName, PropName : string ) : string
12410:   Function ParseStoredItem( const Item : string; var CompName, PropName : string ) : Boolean
12411:   //Function GetPropType( PropInfo : PExPropInfo ) : PTypeInfo
12412: end;
12413:
12414: procedure SIRegister_ovccoco(CL: TPPSPascalCompiler);
12415: begin
12416:   'ovsetsize','LongInt'( 16 );
12417:   'etSyntax','LongInt'( 0 );
12418:   'etSemantic','LongInt'( 1 );
12419:   'chCR','Char #13';
12420:   'chLF','Char #10';
12421:   'chLineSeparator',' chCR';
12422:   SIRegister_TCocoError(CL);
12423:   SIRegister_TCommentItem(CL);
12424:   SIRegister_TCommentList(CL);
12425:   SIRegister_TSymbolPosition(CL);
12426:   TGenListType', '( glNever, glAlways, glOnError )
12427:   TovbitSet', 'set of Integer
12428:   //PStartTable', '^TStartTable // will not work
12429:   'TovCharSet', 'set of AnsiChar
12430:   TAfterGenListEvent', 'Procedure ( Sender : TObject; var PrintErrorCount : boolean )
12431:   TCommentEvent', 'Procedure ( Sender : TObject; CommentList : TCommentList )
12432:   TCustomErrorEvent', 'Function(Sender:TObject;const ErrorCode: longint;const Data:string): string
12433:   TovErrorEvent', 'Procedure ( Sender : TObject; Error : TCocoError )
12434:   TovErrorProc', 'Procedure ( ErrorCode : integer; Symbol : TSymbolP'
12435:     +'osition; const Data : string; ErrorType : integer )
12436:   TFailureEvent', 'Procedure ( Sender : TObject; NumErrors : integer )
12437:   TGetCH', 'Function ( pos : longint ) : char
12438:   TStatusUpdateProc', 'Procedure ( Sender : TObject; Status: string; LineNum:integer )
12439:   SIRegister_TCocoRScanner(CL);
12440:   SIRegister_TCocoRGrammar(CL);
12441:   '_EF','Char #0);
12442:   '_TAB','Char ').SetString( #09 );
12443:   '_CR','Char ').SetString( #13 );
12444:   '_LF','Char ').SetString( #10 );
12445:   '_EL','').SetString( _CR );
12446:   '_EOF','Char ').SetString( #26 );
12447:   'LineEnds','TCharSet'(ord(_CR) or ord(_LF) or ord(_EF));
12448:   'minErrDist','LongInt'( 2 );
12449:   Function ovPadL( S : string; ch : char; L : integer ) : string
12450: end;
12451:
12452: TFormSettings = record
12453:   CurrencyFormat: Byte;
12454:   NegCurrFormat: Byte;
12455:   ThousandSeparator: Char;
12456:   DecimalSeparator: Char;
12457:   CurrencyDecimals: Byte;
12458:   DateSeparator: Char;
12459:   TimeSeparator: Char;
12460:   ListSeparator: Char;
12461:   CurrencyString: string;
12462:   ShortDateFormat: string;
12463:   LongDateFormat: string;
12464:   TimeAMString: string;
12465:   TimePMString: string;
12466:   ShortTimeFormat: string;
12467:   LongTimeFormat: string;
12468:   ShortMonthNames: array[1..12] of string;

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12469:     LongMonthNames: array[1..12] of string;
12470:     ShortDayNames: array[1..7] of string;
12471:     LongDayNames: array[1..7] of string;
12472:     TwoDigitYearCenturyWindow: Word;
12473:   end;
12474:
12475: procedure SIRegister_OvcFormatSettings(CL: TPPascalCompiler);
12476: begin
12477:   Function ovFormatSettings : TFormatSettings
12478: end;
12479:
12480: procedure SIRegister_ovcstr(CL: TPPascalCompiler);
12481: begin
12482:   TOvcCharSet', 'set of Char
12483:   ovBTable', 'array[0..255] of Byte
12484:   //BTable = array[0..$IFDEF UNICODE}{$ELSE}{$ENDIF}{$ELSE}{$ENDIF} of Byte;
12485:   Function BinaryBPChar( Dest : PChar; B : Byte ) : PChar
12486:   Function BinaryLPChar( Dest : PChar; L : LongInt ) : PChar
12487:   Function BinaryWPChar( Dest : PChar; W : Word ) : PChar
12488:   Procedure BMMakeTable( MatchString: PChar; var BT : ovBTable )
12489:   Function BMSearch(var Buffer,BufLength:Cardinal);var BT:ovBTable; MatchString:PChar;var Pos:Cardinal):Bool;
12490:   Function BMSearchUC(var Buffer,BufLength:Cardinal);var BT:ovBTable;MatchString:PChar; var Pos: Card: Boolean
12491:   Function CharStrPChar( Dest : PChar; C : Char; Len : Cardinal ) : PChar
12492:   Function DatabPChar( Dest : PChar; Src : PChar; TabSize : Byte ) : PChar
12493:   Function HexBPChar( Dest : PChar; B : Byte ) : PChar
12494:   Function HexLCChar( Dest : PChar; L : LongInt ) : PChar
12495:   Function HexPtrPChar( Dest : PChar; P : TObject ) : PChar
12496:   Function HexWPChar( Dest : PChar; W : Word ) : PChar
12497:   Function LoCaseChar( C : Char ) : Char
12498:   Function OctalLPChar( Dest : PChar; L : LongInt ) : PChar
12499:   Function StrChDeletePrim( P : PChar; Pos : Cardinal ) : PChar
12500:   Function StrChInsertPrim( Dest : PChar; C : Char; Pos: Cardinal ) : PChar
12501:   Function StrChPos( P : PChar; C : Char; var Pos : Cardinal ) : Boolean
12502:   Procedure StrInsertChars( Dest : PChar; Ch : Char; Pos, Count : Word )
12503:   Function StrSCopy( Dest, S : PChar; Pos, Count : Cardinal ) : PChar
12504:   Function StrSDeletePrim( P : PChar; Pos, Count : Cardinal ) : PChar
12505:   Function StrSInsert( Dest, S1, S2 : PChar; Pos : Cardinal ) : PChar
12506:   Function StrSInsertPrim( Dest, S : PChar; Pos : Cardinal ) : PChar
12507:   Function StrStPos( P, S : PChar; var Pos : Cardinal ) : Boolean
12508:   Function StrToLongChar( S : PChar; var I : LongInt ) : Boolean
12509:   Procedure TrimAllSpacesPChar( P : PChar )
12510:   Function TrimEmbeddedZeros( const S : string ) : string
12511:   Procedure TrimEmbeddedZerosPChar( P : PChar )
12512:   Function TrimTrailPrimPChar( S : PChar ) : PChar
12513:   Function TrimTrailPChar( Dest, S : PChar ) : PChar
12514:   Function TrimTrailingZeros( const S : string ) : string
12515:   Procedure TrimTrailingZerosPChar( P : PChar )
12516:   Function UpCaseChar( C : Char ) : Char
12517:   Function ovcCharInSet( C : Char; const CharSet : TOvcCharSet ) : Boolean
12518:   Function ovc32StringIsCurrentCodePage( const S : WideString ) : Boolean;
12519: //Function ovc32StringIsCurrentCodePage1( const S:PWideChar; CP : Cardinal) : Boolean;
12520: end;
12521:
12522: procedure SIRegister_AfUtils(CL: TPPascalCompiler);
12523: begin
12524:   //PraiseFrame', '^TRaiseFrame // will not work
12525:   TRaiseFrame', 'record NextRaise : PRaiseFrame; ExceptAddr : __Poin'
12526:   +'ter; ExceptObject : TObject; ExceptionRecord : PExceptionRecord; end
12527:   Procedure SafeCloseHandle( var Handle : THandle )
12528:   Procedure ExchangeInteger( X1, X2 : Integer )
12529:   Procedure FillInteger( const Buffer, Size, Value : Integer )
12530:   Function LongMulDiv( Multi, Mult2, Div1 : Longint ) : Longint
12531:   Function afCompareMem( P1, P2 : TObject; Length : Integer ) : Boolean
12532:
12533:   FILENAME_ADVAPI32      = 'ADVAPI32.DLL';
12534:   function AbortSystemShutdown; external advapi32 name 'AbortSystemShutdownW';
12535:   function AbortSystemShutdown(lpMachineName: PKOLOChar): BOOL; stdcall;
12536:     function AccessCheckAndAuditAlarm(SubsystemName: PKOLOChar;
12537:       HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12538:       SecurityDescriptor: PSecurityDescriptor; DesiredAccess: DWORD;
12539:       const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12540:       var GrantedAccess: DWORD; var AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12541:     function AccessCheckByTypeAndAuditAlarm(SubsystemName: PKOLOChar;
12542:       HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12543:       SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: 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 AccessStatus, pfGenerateOnClose: BOOL): BOOL; stdcall;
12547:     function AccessCheckByTypeResultListAndAuditAlarm(SubsystemName: PKOLOChar;
12548:       HandleId: Pointer; ObjectTypeName, ObjectName: PKOLOChar;
12549:       SecurityDescriptor: PSecurityDescriptor; PrincipalSelfSid: PSID; DesiredAccess: DWORD;
12550:       AuditType: AUDIT_EVENT_TYPE; Flags: DWORD; ObjectTypeList: PObjectTypeList;
12551:       ObjectTypeListLength: DWORD; const GenericMapping: TGenericMapping; ObjectCreation: BOOL;
12552:       var GrantedAccess: DWORD; var AccessStatusList:DWORD; var pfGenerateOnClose: BOOL): BOOL; stdcall;
12553:     function BackupEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12554:     function ClearEventLog(hEventLog: THandle; lpBackupFileName: PKOLOChar): BOOL; stdcall;
12555:     function CreateProcessAsUser(hToken: THandle; lpApplicationName: PKOLOChar;
12556:       lpCommandLine: PKOLOChar; lpProcessAttributes: PSecurityAttributes;

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12557:     lpThreadAttributes: PSecurityAttributes; bInheritHandles: BOOL;
12558:     dwCreationFlags: DWORD; lpEnvironment: Pointer; lpCurrentDirectory: PKOLChar;
12559:     const lpStartupInfo: TStartupInfo; var lpProcessInformation: TProcessInformation): BOOL; stdcall;
12560:     function GetCurrentHwProfile(var lpHwProfileInfo: THWProfileInfo): BOOL; stdcall;
12561:     function GetFileSecurity(lpFileName: PKOLChar; RequestedInformation: SECURITY_INFORMATION;
12562:         pSecurityDescriptor: PSecurityDescriptor; nLength: DWORD; var lpnLengthNeeded: DWORD): BOOL; stdcall;
12563:     function GetUserName(lpBuffer: PKOLChar; var nSize: DWORD): BOOL; stdcall;
12564:     function InitiateSystemShutdown(lpMachineName, lpMessage: PKOLChar;
12565:         dwTimeout: DWORD; bForceAppsClosed, bRebootAfterShutdown: BOOL): BOOL; stdcall;
12566:     function LogonUser(lpszUsername, lpszDomain, lpszPassword: PKOLChar;
12567:         dwLogonType, dwLogonProvider: DWORD; var phToken: THandle): BOOL; stdcall;
12568:     function LookupAccountName(lpSystemName, lpAccountName: PKOLChar;
12569:         Sid: PSID; var cbSid: DWORD; ReferencedDomainName: PKOLChar;
12570:         var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12571:     function LookupAccountSid(lpSystemName: PKOLChar; Sid: PSID;
12572:         Name: PKOLChar; var cbName: DWORD; ReferencedDomainName: PKOLChar;
12573:         var cbReferencedDomainName: DWORD; var peUse: SID_NAME_USE): BOOL; stdcall;
12574:     function LookupPrivilegeDisplayName(lpSystemName, lpName: PKOLChar;
12575:         lpDisplayName: PKOLChar; var cbDisplayName, lpLanguageId: DWORD): BOOL; stdcall;
12576:     function LookupPrivilegeName(lpSystemName: PKOLChar;
12577:         var lpLuid: TLargeInteger; lpName: PKOLChar; var cbName: DWORD): BOOL; stdcall;
12578:     function LookupPrivilegeValue(lpSystemName, lpName: PKOLChar;
12579:         var lpLuid: TLargeInteger): BOOL; stdcall;
12580:     function ObjectCloseAuditAlarm(SubsystemName: PKOLChar;
12581:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12582:     function ObjectDeleteAuditAlarm(SubsystemName: PKOLChar;
12583:         HandleId: Pointer; GenerateOnClose: BOOL): BOOL; stdcall;
12584:     function ObjectOpenAuditAlarm(SubsystemName: PKOLChar; HandleId: Pointer;
12585:         ObjectTypeName: PKOLChar; ObjectName: PKOLChar; pSecurityDescriptor: PSecurityDescriptor;
12586:         ClientToken: THandle; DesiredAccess, GrantedAccess: DWORD;
12587:         var Privileges: TPrivilegeSet; ObjectCreation, AccessGranted: BOOL;
12588:         var GenerateOnClose: BOOL): BOOL; stdcall;
12589:     function ObjectPrivilegeAuditAlarm(SubsystemName: PKOLChar;
12590:         HandleId: Pointer; ClientToken: THandle; DesiredAccess: DWORD;
12591:         var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12592:     function OpenBackupEventLog(lpUNCServerName, lpFileName: PKOLChar): THandle; stdcall;
12593:     function OpenEventLog(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12594:     function PrivilegedServiceAuditAlarm(SubsystemName, ServiceName: PKOLChar;
12595:         ClientToken: THandle; var Privileges: TPrivilegeSet; AccessGranted: BOOL): BOOL; stdcall;
12596:     function ReadEventLog(hEventLog: THandle; dwReadFlags, dwRecordOffset: DWORD;
12597:         lpBuffer: Pointer; nNumberOfBytesToRead: DWORD;
12598:         var pnBytesRead, pnMinNumberOfBytesNeeded: DWORD): BOOL; stdcall;
12599:     function RegConnectRegistry(lpMachineName: PKOLChar; hKey: HKEY;
12600:         var phkResult: HKEY): Longint; stdcall;
12601:     function RegCreateKey(hKey: HKEY; lpSubKey: PKOLChar;
12602:         var phkResult: HKEY): Longint; stdcall;
12603:     function RegCreateKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12604:         Reserved: DWORD; lpClass: PKOLChar; dwOptions: DWORD; samDesired: REGSAM;
12605:         lpSecurityAttributes: PSecurityAttributes; var phkResult: HKEY;
12606:         lpdwDisposition: PDWORD): Longint; stdcall;
12607:     function RegDeleteKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12608:     function RegDeleteValue(hKey: HKEY; lpValueName: PKOLChar): Longint; stdcall;
12609:     function RegEnumKeyEx(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar;
12610:         var lpcbName: DWORD; lpReserved: Pointer; lpClass: PKOLChar;
12611:         lpcbClass: PDWORD; lpftLastWriteTime: PFileTime): Longint; stdcall;
12612:     function RegEnumKey(hKey: HKEY; dwIndex: DWORD; lpName: PKOLChar; cbName: DWORD): Longint; stdcall;
12613:     function RegEnumValue(hKey: HKEY; dwIndex: DWORD; lpValueName: PKOLChar;
12614:         var lpcbValueName: DWORD; lpReserved: Pointer; lpType: PDWORD;
12615:         lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12616:     function RegLoadKey(hKey: HKEY; lpSubKey, lpFile: PKOLChar): Longint; stdcall;
12617:     function RegOpenKey(hKey: HKEY; lpSubKey: PKOLChar; var phkResult: HKEY): Longint; stdcall;
12618:     function RegOpenKeyEx(hKey: HKEY; lpSubKey: PKOLChar;
12619:         ulOptions: DWORD; samDesired: REGSAM; var phkResult: HKEY): Longint; stdcall;
12620:     function RegQueryInfoKey(hKey: HKEY; lpClass: PKOLChar;
12621:         lpcbClass: PDWORD; lpReserved: Pointer;
12622:         lpcbSubKeys, lpcbMaxSubKeyLen, lpcbMaxClassLen, lpcValues,
12623:         lpcbMaxValueNameLen, lpcbMaxValueLen, lpcbSecurityDescriptor: PDWORD;
12624:         lpftLastWriteTime: PFileTime): Longint; stdcall;
12625:     function RegQueryMultipleValues(hKey: HKEY; var ValList;
12626:         NumVals: DWORD; lpValueBuf: PKOLChar; var ldwTotsize: DWORD): Longint; stdcall;
12627:     function RegQueryValue(hKey: HKEY; lpSubKey: PKOLChar;
12628:         lpValue: PKOLChar; var lpcbValue: Longint): Longint; stdcall;
12629:     function RegQueryValueEx(hKey: HKEY; lpValueName: PKOLChar;
12630:         lpReserved: Pointer; lpType: PDWORD; lpData: PByte; lpcbData: PDWORD): Longint; stdcall;
12631:     function RegReplaceKey(hKey: HKEY; lpSubKey: PKOLChar;
12632:         lpNewFile: PKOLChar; lpOldFile: PKOLChar): Longint; stdcall;
12633:     function RegRestoreKey(hKey: HKEY; lpFile: PKOLChar; dwFlags: DWORD): Longint; stdcall;
12634:     function RegSaveKey(hKey: HKEY; lpFile: PKOLChar;
12635:         lpSecurityAttributes: PSecurityAttributes): Longint; stdcall;
12636:     function RegSetValue(hKey: HKEY; lpSubKey: PKOLChar;
12637:         dwType: DWORD; lpData: PKOLChar; cbData: DWORD): Longint; stdcall;
12638:     function RegSetValueEx(hKey: HKEY; lpValueName: PKOLChar;
12639:         Reserved: DWORD; dwType: DWORD; lpData: Pointer; cbData: DWORD): Longint; stdcall;
12640:     function RegUnLoadKey(hKey: HKEY; lpSubKey: PKOLChar): Longint; stdcall;
12641:     function RegisterEventSource(lpUNCServerName, lpSourceName: PKOLChar): THandle; stdcall;
12642:     function ReportEvent(hEventLog: THandle; wType, wCategory: Word;
12643:         dwEventID: DWORD; lpUserId: Pointer; wNumStrings: Word;
12644:         dwDataSize: DWORD; lpStrings, lpRawData: Pointer): BOOL; stdcall;
12645:     function SetFileSecurity(lpFileName: PKOLChar; SecurityInformation: SECURITY_INFORMATION;

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

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12707: //Function wGetLocaleInfo(Locale:LCID; LCTYPE:LCType;lpLCData:PKOLChar;cchData:Integer): Integer
12708: Function wGetLogicalDriveStrings( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12709: Function wGetModuleFileName( hModule : HINST; lpFilename : PKOLChar; nSize : DWORD ) : DWORD
12710: Function wGetModuleHandle( lpModuleName : PKOLChar ) : HMODULE
12711: //Function wGetNamedPipeHandleState( hNamedPipe : THandle; lpState, lpCurInstances, lpMaxCollectionCount,
12712: lpCollectDataTimeOut : PDWORD; lpUserName : PKOLChar; nMaxUserNameSize : DWORD ) : BOOL
12713: //Function wGetNumberFormat( Locale : LCID; dwFlags:DWORD; lpValue:PKOLChar; lpFormat:PNumberFmt;
12714: lpNumberStr : PKOLChar; cchNumber : Integer ) : Integer
12715: Function wGetPrivateProfileInt(lpAppName,lpKeyName:PKOLChar;nDefault:Integer;lpFileName:PKOLChar):UINT;
12716: Function wGetPrivateProfileSection(lpAppName:PKOLChar;lpRetrStr:PKOLChar;nSize:DWORD;pFileName:PKOLChar):DWORD;
12717: Function wGetPrivateProfileSectionNames(lpszReturnBuffer:PKOLChar;nSize:DWORD;lpFileName:PKOLChar):DWORD;
12718: Function wGetPrivateProfileString(lpAppName, lpKeyName, lpDefault : PKOLChar;lpReturnedStr : PKOLChar;
12719: nSize:DWORD; lpFileName : PKOLChar) : DWORD
12720: Function wGetProfileInt( lpAppName, lpKeyName : PKOLChar; nDefault : Integer ) : UINT
12721: Function wGetProfileSection( lpAppName : PKOLChar; lpReturnedString : PKOLChar; nSize : DWORD ) : DWORD
12722: Function wGetProfileString(lpAppName,lpKeyName,
12723: lpDefault:PKOLChar;lpReturnedStr:PKOLChar;nSize:DWORD):DWORD;
12724: Procedure wGetStartupInfo( var lpStartupInfo : TStartupInfo )
12725: // Function wGetStringTypeEx(Locale:LCID; dwInfoType:DWORD;lpSrcStr:PKOLChar;cchSrc:Integer;var
12726: lpCharType):BOOL
12727: Function wGetSystemDirectory( lpBuffer : PKOLChar; uSize : UINT ) : UINT
12728: Function wGetTempFileName( lpPathName, lpPrefixString: PKOLChar;uUnique:UINT;lpTempFileName:PKOLChar):UINT
12729: Function wGetTempPath( nBufferLength : DWORD; lpBuffer : PKOLChar ) : DWORD
12730: //Function
12731: wGetTimeFormat(Loc:LCID;dwFlgs:DWORD;lpTime:PSystemTime;lpFrm:PKOLChar;lpTimeStr:PKOLChar;cTime:Int):Int
12732: //Function wGetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
12733: //Function GetVolumeInformation( lpRootPathName : PKOLChar; lpVolumeNameBuffer : PKOLChar; nVolumeNameSize
12734: : DWORD; lpVolumeSerialNumber : PDWORD; var lpMaximumComponentLength, lpFileSystemFlags : DWORD;
12735: lpFileSystemNameBuffer : PKOLChar; nFileSystemNameSize : DWORD ) : BOOL
12736: Function wGlobalAddAtom( lpString : PKOLChar ) : ATOM
12737: Function wGlobalFindAtom( lpString : PKOLChar ) : ATOM
12738: Function wGlobalGetAtomName( nAtom : ATOM; lpBuffer : PKOLChar; nSize : Integer ) : UINT
12739: Function wIsBadStringPtr( lpsz : PKOLChar; ucchMax : UINT ) : BOOL
12740: Function wLCMapString(Loc:LCID;dwMapFlgs:DWORD;lpSrcStr:PKOLChar;cchSrc:Int;lpDestStr:PKOLChar;cchDest:Int):Int;
12741: Function wLoadLibrary( lpLibFileName : PKOLChar ) : HMODULE
12742: Function wLoadLibraryEx( lpLibFileName : PKOLChar; hFile : THandle; dwFlags : DWORD ) : HMODULE
12743: Function wMoveFile( lpExistingFileName, lpNewFileName : PKOLChar ) : BOOL
12744: Function wMoveFileEx( lpExistingFileName, lpNewFileName : PKOLChar; dwFlags : DWORD ) : BOOL
12745: //Function wMoveFileWithProgress( lpExistingFileName, lpNewFileName : PKOLChar; lpProgressRoutine :
12746: TFnProgressRoutine; lpData : Pointer; dwFlags : DWORD ) : BOOL
12747: Function wOpenEvent( dwDesiredAccess : DWORD; bInheritHandle : BOOL;lpName:PKOLChar ) : THandle
12748: Function wOpenFileMapping( dwDesiredAccess : DWORD; bInheritHandle:BOOL;lpName: PKOLChar ):THandle
12749: Function wOpenMutex( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ) : THandle
12750: Function wOpenSemaphore( dwDesiredAccess : DWORD; bInheritHandle : BOOL; lpName : PKOLChar ):THandle
12751: Procedure wOutputDebugString( lpOutputString : PKOLChar )
12752: //Function wPeekConsoleInput(hConsoleInput:THandle;var lpBuffer:TInputRecord;nLength:DWORD;var
12753: lpNumberOfEventsRead:DWORD):BOOL;
12754: Function wQueryDosDevice( lpDeviceName : PKOLChar; lpTargetPath : PKOLChar; ucchMax : DWORD ) : DWORD
12755: //Function wQueryRecoveryAgents(p1:PKOLChar;var p2:Pointer;var p3:TRecoveryAgentInformation):DWORD
12756: //Function wReadConsole( hConsoleInput : THandle; lpBuffer : Pointer; nNumberOfCharsToRead : DWORD; var
12757: lpNumberOfCharsRead : DWORD; lpReserved : Pointer ) : BOOL
12758: //Function wReadConsoleInput(hConsInp:THandle;var lpBuf:TInpRec;nLength:DWORD;var
12759: lpNumbOfEventsRead:DWORD):BOOL;
12760: //Function wReadConsoleOutput( hConsoleOutput : THandle; lpBuffer : Pointer; dwBufferSize, dwBufferCoord
12761: : TCoord; var lpReadRegion : TSmallRect ) : BOOL
12762: //Function wReadConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12763: DWORD; dwReadCoord : TCoord; var lpNumberOfCharsRead : DWORD ) : BOOL
12764: Function wRemoveDirectory( lpPathName : PKOLChar ) : BOOL
12765: //Function wScrollConsoleScreenBuffer( hConsoleOutput : THandle; const lpScrollRectangle : TSmallRect;
12766: lpClipRectangle : PSmallRect; dwDestinationOrigin : TCoord; var lpFill : TCharInfo ) : BOOL
12767: Function wSearchPath( lpRootPath,lpFileName,lpExtension:PKOLChar;nBufferLength:DWORD;lpBuffer:PKOLChar;var
12768: lpFilePart:PKOLChar):DWORD;
12769: Function wSetComputerName( lpComputerName : PKOLChar ) : BOOL
12770: Function wSetConsoleTitle( lpConsoleTitle : PKOLChar ) : BOOL
12771: Function wSetCurrentDirectory( lpPathName : PKOLChar ) : BOOL
12772: //Function wSetDefaultCommConfig( lpszName : PKOLChar; lpCC : PCommConfig; dwSize : DWORD ) : BOOL
12773: Function wSetEnvironmentVariable( lpName, lpValue : PKOLChar ) : BOOL
12774: Function wSetFileAttributes( lpFileName : PKOLChar; dwFileAttributes : DWORD ) : BOOL
12775: //Function wSetLocaleInfo( Locale : LCID; LCTYPE : LCTYPE; lpLCData : PKOLChar ) : BOOL
12776: Function wSetVolumeLabel( lpRootPathName : PKOLChar; lpVolumeName : PKOLChar ) : BOOL
12777: //Function wUpdateResource(hUpdate:THandle;lpType,
12778: lpName:PKOLChar;wLanguage:Word;lpData:Ptr;cbData:DWORD):BOOL
12779: Function wVerLanguageName( wLang : DWORD; szLang : PKOLChar; nSize : DWORD ) : DWORD
12780: Function wWaitNamedPipe( lpNamedPipeName : PKOLChar; nTimeOut : DWORD ) : BOOL
12781: //Function wWriteConsole( hConsoleOutput : THandle; const lpBuffer : Pointer; nNumberOfCharsWritten :
12782: DWORD; var lpNumberOfCharsWritten : DWORD; lpReserved : Pointer ) : BOOL
12783: //Function wWriteConsoleInput( hConsoleInput : THandle; const lpBuffer : TInputRecord; nLength : DWORD;
12784: var lpNumberOfEventsWritten : DWORD ) : BOOL
12785: //Function wWriteConsoleOutput(hConsoleOutput:THandle; lpBuffer:Pointer; dwBufferSize,dwBufferCoord :
12786: TCoord; var lpWriteRegion : TSmallRect ) : BOOL
12787: //Function wWriteConsoleOutputCharacter( hConsoleOutput : THandle; lpCharacter : PKOLChar; nLength :
12788: DWORD; dwWriteCoord : TCoord; var lpNumberOfCharsWritten : DWORD ) : BOOL
12789: Function wWritePrivateProfileSection( lpAppName, lpString, lpFileName : PKOLChar ) : BOOL
12790: Function wWritePrivateProfileString( lpAppName, lpKeyName, lpString, lpFileName : PKOLChar ) : BOOL

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

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

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12918: Function wIsCharAlphaNumeric( ch : KOLChar ) : BOOL
12919: Function wIsCharLower( ch : KOLChar ) : BOOL
12920: Function wIsCharUpper( ch : KOLChar ) : BOOL
12921: Function wIsDialogMessage( hDlg : HWND; var lpMsg : TMsg ) : BOOL
12922: Function wLoadAccelerators( hInstance : HINST; lpTableName : PKOLChar ) : HACCEL
12923: Function wLoadBitmap( hInstance : HINST; lpBitmapName : PKOLChar ) : HBITMAP
12924: Function wLoadCursor( hInstance : HINST; lpCursorName : PKOLChar ) : HCURSOR
12925: Function wLoadCursorFromFile( lpFileName : PKOLChar ) : HCURSOR
12926: Function wLoadIcon( hInstance : HINST; lpIconName : PKOLChar ) : HICON
12927: Function wLoadImage(hInst:HINST;ImageName:PKOLChar;ImageType:UINT;X,Y:Integer;Flags:UINT): THandle
12928: Function wLoadKeyboardLayout( pwszKLID : PKOLChar; Flags : UINT ) : HKL
12929: Function wLoadMenu( hInstance : HINST; lpMenuName : PKOLChar ) : HMENU
12930: //Function wLoadMenuItemIndirect( lpMenuTemplate : Pointer ) : HMENU
12931: Function wLoadString(hInstance:HINST;uID : UINT; lpBuffer : PKOLChar;nBufferMax:Integer):Integer
12932: Function wMapVirtualKey( uCode, uMapType : UINT ) : UINT
12933: Function wMapVirtualKeyEx( uCode, uMapType : UINT; dwhkl : HKL ) : UINT
12934: Function wMessageBox( hWnd : HWND; lpText, lpCaption : PKOLChar; uType : UINT ) : Integer
12935: Function wMessageBoxEx( hWnd:HWND; lpText,lpCaption:PKOLChar;uType:UINT;wLanguageId:Word): Integer
12936: //Function wMessageBoxIndirect( const MsgBoxParams : TMsgBoxParams ) : BOOL
12937: Function wModifyMenu( hMnu : HMENU; uPosition, uFlags, uidNewItem : UINT; lpNewItem : PKOLChar ) : BOOL
12938: //Function wOemToAnsi( const lpszSrc : LPCSTR; lpszDst : LPSTR ) : BOOL
12939: //7Function wOemToAnsiBuff( lpszSrc : LPCSTR; lpszDst : LPSTR; cchDstLength : DWORD ) : BOOL
12940: //Function wOemToChar( lpszSrc : PKOLChar; lpszDst : PKOLChar ) : BOOL
12941: Function wOemToCharBuff( lpszSrc : PKOLChar; lpszDst : PKOLChar; cchDstLength : DWORD ) : BOOL
12942: Function wOpenDesktop(lpszDesktop:PKOLChar;dwFlags:DWORD;fInherit:BOOL;dwDesiredAccess:DWORD):HDESK
12943: Function wOpenWindowStation( lpszWinSta : PKOLChar; fInherit : BOOL; dwDesiredAccess : DWORD ) : HWINSTA
12944: Function wPeekMessage( var lpMsg : TMsg; hWnd: HWND; wMsgFilterMin,wMsgFilterMax, wRemoveMsg:UINT ):BOOL
12945: Function wPostMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12946: Function wPostThreadMessage(idThread:DWORD;Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12947: Function wRealGetWindowClass( hwnd : HWND; pszType : PKOLChar; cchType : UINT ) : UINT
12948: // Function wRegisterClass( const lpWndClass : TWndClass ) : ATOM
12949: // Function wRegisterClassEx( const WndClass : TWndClassEx ) : ATOM
12950: Function wRegisterClipboardFormat( lpszFormat : PKOLChar ) : UINT
12951: // Function wRegisterDeviceNotification(hRecipient:THandle;NotificFilter:Pointer;Flags:DWORD):HDEVNOTIFY
12952: Function wRegisterWindowMessage( lpString : PKOLChar ) : UINT
12953: Function wRemoveProp( hWnd : HWND; lpString : PKOLChar ) : THandle
12954: Function wSendDlgItemMessage(hDlg:HWND;nIDDDlgItem:Integer;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
12955: Function wSendMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : LRESULT
12956: //Function wSendMessageCallback( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam:LPARAM;
lpResultCallBack : TFNSendAsyncProc; dwData : DWORD ) : BOOL
12957: Function wSendMessageTimeout(hWnd:HWND;Msg:UINT;wParam:WPARAM;lParam:LPARAM; fuFlags,uTimeout:UINT;var
lpdwResult:DWORD) : LRESULT
12958: Function wSendNotifyMessage( hWnd : HWND; Msg : UINT; wParam : WPARAM; lParam : LPARAM ) : BOOL
12959: Function wSetClassLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : DWORD
12960: Function wSetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PKOLChar ) : BOOL
12961: //Function wSetMenuItemInfo( p1 : HMENU; p2 : UINT; p3 : BOOL; const p4 : TMenuItemInfo ) : BOOL
12962: Function wSetProp( hWnd : HWND; lpString : PKOLChar; hData : THandle ) : BOOL
12963: // Function wSetUserObjectInformation(hObj:THandle;nIndex:Integer;pvInfo:Pointer;nLength:DWORD):BOOL
12964: Function wSetWindowLong( hWnd : HWND; nIndex : Integer; dwNewLong : Longint ) : Longint
12965: Function wSetWindowText( hWnd : HWND; lpString : PKOLChar ) : BOOL
12966: //Function wSetWindowsHook( nFilterType : Integer; pfnFilterProc : TFNHookProc ) : HHOOK
12967: //Function wSetWindowsHookEx(idHook:Integer,pfn:TFNHookProc,hmod:HINST,dwThreadId:DWORD):HHOOK;
12968: // Function wSystemParametersInfo( uiAction, uiParam : UINT; pvParam : Pointer; fWinIni: UINT):BOOL
12969: Function wTabbedTextOut(hdc:HDC;x,y:Int;lpString:PKOLChar;nCount,nTabPositions:Int;var
lpnTabStopPositions,nTabOrigin:Int):Longint;
12970: Function wTranslateAccelerator( hWnd : HWND; hAccTable : HACCEL; var lpMsg : TMsg ) : Integer
12971: Function wUnregisterClass( lpClassName : PKOLChar; hInstance : HINST ) : BOOL
12972: Function wVkKeyScan( ch : KOLChar ) : SHORT
12973: Function wVkKeyScanEx( ch : KOLChar; dwhkl : HKL ) : SHORT
12974: Function wWinHelp( hWndMain : HWND; lpszHelp : PKOLChar; uCommand : UINT; dwData : DWORD ) : BOOL
12975: Function wwsprintf( Output : PKOLChar; Format : PKOLChar ) : Integer
12976: Function wwwsprintf( Output : PKOLChar; Format : PKOLChar; arglist : va_list ) : Integer
12977:
12978: //TestDrive!
12979: 'SID_REVISION','LongInt'(1);'FILENAME_ADVAPI32','String').SetString('ADVAPI32.DLL'
12980: 'PROC_CONVERTSIDTOSTRINGSIDA','String').SetString( 'ConvertSidToStringSidA'
12981: Function GetDomainUserSids(const domainName:String;const userName:String; var foundDomain:String):String;
12982: Function GetLocalUserSids( const UserName:String : string ) : string
12983: Function getPid4user( const domain : string; const user : string; var pid : dword ) : boolean
12984: Function Impersonate2User( const domain : string; const user : string ) : boolean
12985: Function GetProcessUserBypid( pid : DWORD; var UserName, Domain : AnsiString ) : Boolean
12986: Function KillProcessbyname( const exename : string; var found : integer ) : integer
12987: Function getWinProcessList : TStringList
12988: end;
12989:
12990: procedure SIRegister_AfSafeSync(CL: TPSPascalCompiler);
12991: begin
12992: 'AfMaxSyncSlots','LongInt'( 64 );
12993: 'AfSynchronizeTimeout','LongInt'( 2000 );
12994: TAFSyncSlotID', 'DWORD
12995: TAFSyncStatistics','record MessagesCount:Int;TimeoutMessages:Int;DisabledMessages:Int;end';
12996: TAFSafeSyncEvent', 'Procedure ( ID : TAFSyncSlotID )
12997: TAFsafeDirectSyncEvent', 'Procedure
12998: Function AfNewSyncSlot( const AEvent : TAFSafeSyncEvent ) : TAFSyncSlotID
12999: Function AfReleaseSyncSlot( const ID : TAFSyncSlotID ) : Boolean
13000: Function AfEnableSyncSlot( const ID : TAFSyncSlotID; Enable : Boolean ) : Boolean
13001: Function AfValidateSyncSlot( const ID : TAFSyncSlotID ) : Boolean
13002: Function AfSyncEvent( const ID : TAFSyncSlotID; Timeout : DWORD ) : Boolean
13003: Function AfDirectSyncEvent( Event : TAFSafeDirectSyncEvent; Timeout : DWORD ) : Boolean

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13004: Function AfIsSyncMethod : Boolean
13005: Function AfSyncWnd : HWnd
13006: Function AfSyncStatistics : TAfSyncStatistics
13007: Procedure AfClearSyncStatistics
13008: end;
13009:
13010: procedure SIRegister_AfComPortCore(CL: TPSPPascalCompiler);
13011: begin
13012:   'fBinary','LongWord')($00000001);
13013:   'fParity','LongWord')($00000002);
13014:   'fOutxCtsFlow','LongWord').SetUInt($00000004);
13015:   'fOutxDsrFlow','LongWord')($00000008);
13016:   'fDtrControl','LongWord')($00000030);
13017:   'fDtrControlDisable','LongWord')($00000000);
13018:   'fDtrControlEnable','LongWord')($00000010);
13019:   'fDtrControlHandshake','LongWord')($00000020);
13020:   'fDsrSensitivity','LongWord')($00000040);
13021:   'fTXContinueOnXoff','LongWord')($00000080);
13022:   'fOutX','LongWord')($00000100);
13023:   'fInX','LongWord')($00000200);
13024:   'fErrorChar','LongWord')($00000400);
13025:   'fNull','LongWord')($00000800);
13026:   'fRtsControl','LongWord')($00003000);
13027:   'fRtsControlDisable','LongWord')($00000000);
13028:   'fRtsControlEnable','LongWord')($00001000);
13029:   'fRtsControlHandshake','LongWord')($00002000);
13030:   'fRtsControlToggle','LongWord')($00003000);
13031:   'fAbortOnError','LongWord')($00004000);
13032:   'fDummy2','LongWord')($FFFF8000);
13033:   TAfCoreEvent', '( ceOutFree, ceLineEvent, ceNeedReadData, ceException )
13034:   FindClass('TOBJECT'), 'EAfComPortCoreError
13035:   FindClass('TOBJECT'), 'TAfComPortCore
13036:   TAfComPortCoreEvent', 'Procedure ( Sender : TAfComPortCore; Event'
13037:     +'tKind : TAfCoreEvent; Data : DWORD)
13038:   SIRegister_TAfComPortCoreThread(CL);
13039:   SIRegister_TAfComPortEventThread(CL);
13040:   SIRegister_TAfComPortWriteThread(CL);
13041:   SIRegister_TAfComPortCore(CL);
13042:   Function FormatDeviceName( PortNumber : Integer ) : string
13043: end;
13044:
13045: procedure SIRegister_ApplicationFileIO(CL: TPSPPascalCompiler);
13046: begin
13047:   TAfIOFileStreamEvent', 'Function ( const fileName : String; mode: Word ) : TStream
13048:   TAfIOFileExistsEvent', 'Function ( const fileName : String ) : Boolean
13049:   SIRegister_TApplicationFileIO(CL);
13050:   TDataFileCapability', '( dfcRead, dfcWrite )
13051:   TDataFileCapabilities', 'set of TDataFileCapability
13052:   SIRegister_TDataFile(CL);
13053:   //TDataFileClass', 'class of TDataFile
13054:   Function ApplicationFileIODefined : Boolean
13055:   Function CreateFileStream(const fileName: String; mode: Word; fmShareDenyNone): TStream
13056:   Function FileStreamExists(const fileName: String) : Boolean
13057:   //Procedure Register
13058: end;
13059:
13060: procedure SIRegister_ALFBXLib(CL: TPSPPascalCompiler);
13061: begin
13062:   TALFBXFieldType', '( uftUnknown, uftNumeric, uftChar, uftVarchar'
13063:     +', uftCString, uftSmallint, uftInteger, uftQuad, uftFloat, uftDoublePrecision'
13064:     +'on, uftTimestamp, uftBlob, uftBlobId, uftDate, uftTime, uftInt64, uftArray, uftNull )
13065:   TALFBXScale', 'Integer
13066:   FindClass('TOBJECT'), 'EALFBXConvertError
13067:   SIRegister_EALFBXError(CL);
13068:   SIRegister_EALFBXException(CL);
13069:   FindClass('TOBJECT'), 'EALFBXGFixError
13070:   FindClass('TOBJECT'), 'EALFBXDSQLError
13071:   FindClass('TOBJECT'), 'EALFBXDynError
13072:   FindClass('TOBJECT'), 'EALFBXBakError
13073:   FindClass('TOBJECT'), 'EALFBXGSecError
13074:   FindClass('TOBJECT'), 'EALFBXLicenseError
13075:   FindClass('TOBJECT'), 'EALFBXGStatError
13076:   //EALFBXExceptionClass', 'class of EALFBXError
13077:   TALFBXCharacterSet', '( csNONE, csASCII, csBIG_5, csCYRL, csDOS4'
13078:     +'37, csDOS850, csDOS852, csDOS857, csDOS860, csDOS861, csDOS863, csDOS865, '
13079:     +'csEUCL_0208, csGB_2312, csISO8859_1, csISO8859_2, csKSC_5601, csNEXT, csOC'
13080:     +'TETS, csSJIS_0208, csUNICODE_FSS, csUTF8, csWIN1250, csWIN1251, csWIN1252, '
13081:     +'csWIN1253, csWIN1254, csDOS737, csDOS775, csDOS858, csDOS862, csDOS864, c'
13082:     +'SDOS866, csDOS869, csWIN1255, csWIN1256, csWIN1257, csISO8859_3, csISO8859'
13083:     +'4, csISO8859_5, csISO8859_6, csISO8859_7, csISO8859_8, csISO8859_9, csISO'
13084:     +'8859_13, csKOI8R, csKOI8U, csWIN1258, csTIS620, csGBK, csCP943C )
13085:   TALFBXTransParam', '( tpConsistency, tpConcurrency, tpShared, tp'
13086:     +'Protected, tpExclusive, tpWait, tpNowait, tpRead, tpWrite, tpLockRead, tpL'
13087:     +'ockWrite, tpVerbTime, tpCommitTime, tpIgnoreLimbo, tpReadCommitted, tpAuto'
13088:     +'Commit, tpRecVersion, tpNoRecVersion, tpRestartRequests, tpNoAutoUndo, tpLockTimeout )
13089:   TALFBXTransParams', 'set of TALFBXTransParam
13090:   Function ALFBXStrToCharacterSet( const CharacterSet : AnsiString ) : TALFBXCharacterSet
13091:   Function ALFBXCreateDBParams( Params : AnsiString; Delimiter : Char ) : AnsiString
13092:   Function ALFBXCreateBlobParams( Params : AnsiString; Delimiter : Char ) : AnsiString

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13093: 'cALFBXMaxParamLength', 'LongInt'( 125);
13094: TALFBXParamsFlag', '( pfNotInitialized, pfNotNullable )
13095: TALFBXParamsFlags', 'set of TALFBXParamsFlag
13096: //PALFBXSQLVar', '^TALFBXSQLVar // will not work
13097: //TALFBXSQLDaData', '^TALFBXSQLDaData // will not work
13098: TALFBXStatementType', '( stSelect, stInsert, stUpdate, stDelete,
13099: +' stDDL, stGetSegment, stPutSegment, stExecProcedure, stStartTrans, stCommis
13100: +' t, stRollback, stSelectForUpdate, stSetGenerator, stSavePoint )
13101: SIRегистер_TALFBXSQLDA(CL);
13102: //PALFBXPtrArray', '^TALFBXPtrArray // will not work
13103: SIRегистер_TALFBXPoolStream(CL);
13104: //PALFBXBlobData', '^TALFBXBlobData // will not work
13105: TALFBXBlobData', 'record Size : Integer; Buffer : string; end
13106: //PALFBXArrayDesc', 'TALFBXArrayDesc // will not work
13107: //TALFBXArrayDesc', 'TISCArrayDesc
13108: //TALFBXBlobDesc', 'TISCBlobDesc
13109: //PALFBXArrayInfo', '^TALFBXArrayInfo // will not work
13110: //TALFBXArrayInfo', 'record index : Integer; size : integer; info: TALFBXArrayDesc; end
13111: SIRегистер_TALFBXSQLResult(CL);
13112: //TALFBXSQLResultClass', 'class of TALFBXSQLResult
13113: SIRегистер_TALFBXSQLParams(CL);
13114: //TALFBXSQLParamsClass', 'class of TALFBXSQLParams
13115: TALFBXDSQLInfoData', 'record InfoCode : byte; InfoLen : Word; St'
13116: +'atementType : TALFBXStatementType; end
13117: FindClass('TOBJECT'), 'TALFBXLibrary
13118: //PALFBXStatusVector', '^TALFBXStatusVector // will not work
13119: TALFBXOnConnectionLost', 'Procedure ( Lib : TALFBXLibrary )
13120: //TALFBXOnGetDBExceptionClass', 'Procedure ( Number : Integer; out'
13121: +'+' Excep : EALFBXExceptionClass )
13122: SIRегистер_TALFBXLibrary(CL);
13123: 'cALFBXDateOffset', 'LongInt'( 15018 );
13124: 'cALFBXTimeCoef', 'LongInt'( 864000000 );
13125: //Procedure ALFBXDecodeTimeStamp( v : PISCTimeStamp; out DateTime : Double );
13126: //Procedure ALFBXDecodeTimeStamp1( v : PISCTimeStamp; out TimeStamp : TTimeStamp );
13127: //Function ALFBXDecodeTimeStamp2( v : PISCTimeStamp ) : Double;
13128: Procedure ALFBXDecodeSQLDate( v : Integer; out Year : SmallInt; out Month, Day : Word )
13129: Procedure ALFBXDecodeSQLTime(v:Cardinal;out Hour,Minute,Second:Word; out Fractions: LongWord)
13130: //Procedure ALFBXEncodeTimeStamp( const DateTime : TDateTime; v : PISCTimeStamp );
13131: //Procedure ALFBXEncodeTimeStamp1( const Date : Integer; v : PISCTimeStamp );
13132: //Procedure ALFBXEncodeTimeStamp2( const Time : Cardinal; v : PISCTimeStamp );
13133: Function ALFBXEncodeSQLDate( Year : Integer; Month, Day : Integer ) : Integer
13134: Function ALFBXEncodeSQLTime( Hour, Minute, Second : Word; var Fractions : LongWord) : Cardinal
13135: TALFBXParamType', '( prNone, prByte, prShrt, prCard, prStrg, prLgno )
13136: TALFBXDPBInfo', 'record Name : AnsiString; ParamType : TALFBXParamType; end
13137: Function ALFBXSQLQuote( const name : AnsiString ) : AnsiString
13138: Function ALFBXSQLUnQuote( const name : AnsiString ) : AnsiString
13139: end;
13140:
13141: procedure SIRегистер_ALFBXClient(CL: TPSPPascalCompiler);
13142: begin
13143: TALFBXClientSQLParam', 'record Value : AnsiString; IsNull : Boolean; end
13144: TALFBXClientSQLParams', 'array of TALFBXClientSQLParam
13145: TALFBXClientSelectDataSQL', 'record SQL : AnsiString; Params : T'
13146: +'ALFBXClientSQLParams; RowTag : AnsiString; ViewTag : AnsiString; Skip : in'
13147: +'teger; First : Integer; CacheThreshold : Integer; end
13148: TALFBXClientSelectDataSQLs', 'array of TALFBXClientSelectDataSQL
13149: TALFBXClientUpdateDataSQL', 'record SQL : AnsiString; Params: TALFBXClientSQLParams; end
13150: TALFBXClientUpdateDataSQLs', 'array of TALFBXClientUpdateDataSQL
13151: TALFBXClientMonitoringIOStats', 'record page_reads : int64; page'
13152: +'_writes : int64; page_fetches : int64; page_marks : int64; end
13153: SIRегистер_TALFBXClient(CL);
13154: SIRегистер_TALFBXConnectionStatementPoolBinTreeNode(CL);
13155: SIRегистер_TALFBXConnectionStatementPoolBinTree(CL);
13156: SIRегистер_TALFBXConnectionWithStmtPoolContainer(CL);
13157: SIRегистер_TALFBXConnectionWithoutStmtPoolContainer(CL);
13158: SIRегистер_TALFBXReadTransactionPoolContainer(CL);
13159: SIRегистер_TALFBXReadStatementPoolContainer(CL);
13160: SIRегистер_TALFBXStringKeyPoolBinTreeNode(CL);
13161: SIRегистер_TALFBXConnectionPoolClient(CL);
13162: SIRегистер_TALFBXEventThread(CL);
13163: Function AlMySqlClientSlashedStr( const Str : AnsiString ) : AnsiString
13164: end;
13165:
13166: procedure SIRегистер_ovcBidi(CL: TPSPPascalCompiler);
13167: begin
13168: _OSVERSIONINFOA = record
13169: dwOSVersionInfoSize: DWORD;
13170: dwMajorVersion: DWORD;
13171: dwMinorVersion: DWORD;
13172: dwBuildNumber: DWORD;
13173: dwPlatformId: DWORD;
13174: szCSDVersion: array[0..127] of AnsiChar; { Maintenance AnsiString for PSS usage }
13175: end;
13176: TOSVersionInfoA', '_OSVERSIONINFOA
13177: TOSVersionInfo', 'TOSVersionInfoA
13178: 'WS_EX_RIGHT', 'LongWord')( $00001000 );
13179: 'WS_EX_LEFT', 'LongWord')( $00000000 );
13180: 'WS_EX_RTLREADING', 'LongWord')( $00002000 );
13181: 'WS_EX_LTRREADING', 'LongWord')( $00000000 );

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13182:  'WS_EX_LEFTSCROLLBAR','LongWord')( $00004000);
13183:  'WS_EX_RIGHTSCROLLBAR','LongWord')( $00000000);
13184:  Function SetProcessDefaultLayout( dwDefaultLayout : DWORD ) : BOOL
13185:  'LAYOUT_RTL','LongWord')( $00000001);
13186:  'LAYOUT_BTT','LongWord')( $00000002);
13187:  'LAYOUT_VBH','LongWord')( $00000004);
13188:  'LAYOUT_BITMAPORIENTATIONPRESERVED','LongWord')( $00000008);
13189:  'NOMIRRORBITMAP','LongWord')( DWORD ( $80000000 ) );
13190:  Function SetLayout( dc : HDC; dwLayout : DWORD ) : DWORD
13191:  Function GetLayout( dc : hdc ) : DWORD
13192:  Function IsBidi : Boolean
13193:  Function GetCurrentHwProfile( var lpHwProfileInfo : THWProfileInfo ) : BOOL
13194:  Function GetVersionEx( var lpVersionInformation : TOSVersionInfo ) : BOOL
13195:  Function SetPriorityClass( hProcess : THandle; dwPriorityClass: DWORD ) : BOOL
13196:  Function GetPriorityClass( hProcess : THandle ) : DWORD
13197:  Function OpenClipboard( hWndNewOwner : HWND ) : BOOL
13198:  Function CloseClipboard : BOOL
13199:  Function GetClipboardSequenceNumber : DWORD
13200:  Function GetClipboardOwner : HWND
13201:  Function SetClipboardViewer( hWndNewViewer : HWND ) : HWND
13202:  Function GetClipboardViewer : HWND
13203:  Function ChangeClipboardChain( hWndRemove, hWndNewNext : HWND ) : BOOL
13204:  Function SetClipboardData( uFormat : UINT; hMem : THandle ) : THandle
13205:  Function GetClipboardData( uFormat : UINT ) : THandle
13206:  Function RegisterClipboardFormat( lpszFormat : PChar ) : UINT
13207:  Function CountClipboardFormats : Integer
13208:  Function EnumClipboardFormats( format : UINT ) : UINT
13209:  Function GetClipboardFormatName(format:UINT;lpszFormatName:PChar;cchMaxCount:Integer):Integer
13210:  Function EmptyClipboard : BOOL
13211:  Function IsClipboardFormatAvailable( format : UINT ) : BOOL
13212:    Function GetPriorityClipboardFormat( var paFormatPriorityList, cFormats : Integer ) : Integer
13213:  Function GetOpenClipboardWindow : HWND
13214:  Function EndDialog( hDlg : HWND; nResult : Integer ) : BOOL
13215:  Function GetDlgItem( hDlg : HWND; nIDDlgItem : Integer ) : HWND
13216:  Function SetDlgItemInt( hDlg : HWND; nIDDlgItem : Integer; uValue : UINT; bSigned: BOOL): BOOL
13217:  Function GetDlgItemInt(hDlg:HWND;nIDDlgItem:Integer;var lpTranslated:BOOL;bSigned: BOOL): UINT
13218:  Function SetDlgItemText( hDlg : HWND; nIDDlgItem : Integer; lpString : PChar ) : BOOL
13219:  Function CheckDlgButton( hDlg : HWND; nIDButton : Integer; uCheck : UINT ) : BOOL
13220:  Function CheckRadioButton( hDlg : HWND; nIDFirstButton, nIDLastButton,nIDCheckButton:Integer ) : BOOL
13221:  Function IsDlgButtonChecked( hDlg : HWND; nIDButton : Integer ) : UINT
13222:  Function SendDlgItemMessage(hDlg:HWND;nIDDlgItem:Int;Msg:UINT;wParam:WPARAM;lParam:LPARAM):Longint;
13223: end;
13224:
13225: procedure SIRegister_DXPUtils(CL: TPSPascalCompiler);
13226: begin
13227:  Function glExecuteAndWait(cmdLine:String;visibility:Word;timeout:Cardinal;killAppOnTimeOut:Bool):Int;
13228:  Function GetTemporaryFilesPath : String
13229:  Function GetTemporaryFileName : String
13230:  Function FindFileInPaths( const fileName, paths : String ) : String
13231:  Function PathsToString( const paths : TStrings ) : String
13232:  Procedure StringToPaths( const pathsString : String; paths : TStrings )
13233: //Function MacroExpandPath( const aPath : String ) : String
13234: end;
13235:
13236: procedure SIRegister_ALMultiPartBaseParser(CL: TPSPascalCompiler);
13237: begin
13238:  SIRegister_TALMultiPartBaseContent(CL);
13239:  SIRegister_TALMultiPartBaseContents(CL);
13240:  SIRegister_TALMultiPartBaseStream(CL);
13241:  SIRegister_TALMultiPartBaseEncoder(CL);
13242:  SIRegister_TALMultiPartBaseDecoder(CL);
13243:  Function ALMultipartExtractBoundaryFromContentType( aContentType : AnsiString ) : AnsiString
13244:  Function ALMultipartExtractSubValueFromHeaderLine(aHeaderLine:AnsiString;aName:AnsiString):AnsiString;
13245:  Function ALMultipartSetSubValueInHeaderLine(aHeaderLine:AnsiString;aName,AValue:AnsiString):AnsiString;
13246: end;
13247:
13248: procedure SIRegister_SmallUtils(CL: TPSPascalCompiler);
13249: begin
13250:  TdriveSize', 'record FreeS : Int64; TotalS : Int64; end
13251:  TWinVerRec', 'record WinPlatform : Integer; WinMajorVersion : In
13252:    +teger; WinMinorVersion : Integer; WinBuildNumber : Integer; WinCSDVersion: String; end
13253:  Function aAllocPadedMem( Size : Cardinal ) : TObject
13254:  Procedure aFreePadedMem( var P : TObject );
13255:  Procedure aFreePadedMem1( var P : PChar );
13256:  Function aCheckPadedMem( P : Pointer ) : Byte
13257:  Function aGetPadMemSize( P : Pointer ) : Cardinal
13258:  Function aAllocMem( Size : Cardinal ) : Pointer
13259:  Function aStrLen( const Str : PChar ) : Cardinal
13260:  Function aStrLCopy( Dest : PChar; const Source : PChar; MaxLen : Cardinal ) : PChar
13261:  Function aStrECopy( Dest : PChar; const Source : PChar ) : PChar
13262:  Function aStrCopy( Dest : PChar; const Source : PChar ) : PChar
13263:  Function aStrEnd( const Str : PChar ) : PChar
13264:  Function aStrScan( const Str : PChar; aChr : Char ) : PChar
13265:  Function aStrMove( Dest : PChar; const Source : PChar; Count : Cardinal ) : PChar
13266:  Function aPCharLength( const Str : PChar ) : Cardinal
13267:  Function aPCharUpper( Str : PChar ) : PChar
13268:  Function aPCharLower( Str : PChar ) : PChar
13269:  Function aStrCat( Dest : PChar; const Source : PChar ) : PChar
13270:  Function aLastDelimiter( const Delimiters, S : String ) : Integer

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13271: Function aCopyTail( const S : String; Len : Integer ) : String
13272: Function aInt2Thos( I : Int64 ) : String
13273: Function aUpperCase( const S : String ) : String
13274: Function aLowerCase( const S : string ) : String
13275: Function aCompareText( const S1, S2 : string ) : Integer
13276: Function aSameText( const S1, S2 : string ) : Boolean
13277: Function aInt2Str( Value : Int64 ) : String
13278: Function aStr2Int( const Value : String ) : Int64
13279: Function aStr2IntDef( const S : string; Default : Int64 ) : Int64
13280: Function aGetFileExt( const FileName : String ) : String
13281: Function aGetFilePath( const FileName : String ) : String
13282: Function aGetFileName( const FileName : String ) : String
13283: Function aChangeExt( const FileName, Extension : String ) : String
13284: Function aAdjustLineBreaks( const S : string ) : string
13285: Function aGetWindowStr( WinHandle : HWND ) : String
13286: Function aDiskSpace( Drive : String ) : TdriveSize
13287: Function aFileExists( FileName : String ) : Boolean
13288: Function aFileSize( FileName : String ) : Int64
13289: Function aDirectoryExists( const Name : string ) : Boolean
13290: Function aSysErrorMessage( ErrorCode : Integer ) : string
13291: Function aShortPathName( const LongName : string ) : string
13292: Function aGetWindowVer : TWinVerRec
13293: procedure InitDriveSpacePtr;
13294: end;
13295:
13296: procedure SIRegister_MakeApp(CL: TPSPascalCompiler);
13297: begin
13298:   aZero','LongInt'( 0 );
13299:   'makeappDEF','LongInt'( - 1 );
13300:   'CS_VREDRAW','LongInt'( DWORD ( 1 ) );
13301:   'CS_HREDRAW','LongInt'( DWORD ( 2 ) );
13302:   'CS_KEYCWTWINDOW','LongInt'( 4 );
13303:   'CS_DBLCLKS','LongInt'( 8 );
13304:   'CS_OWNDC','LongWord')( $20 );
13305:   'CS_CLASSDC','LongWord')( $40 );
13306:   'CS_PARENTDC','LongWord')( $80 );
13307:   'CS_NOKEYCWT','LongWord')( $100 );
13308:   'CS_NOCLOSE','LongWord')( $200 );
13309:   'CS_SAVEBITS','LongWord')( $800 );
13310:   'CS_BYTEALIGNCLIENT','LongWord')( $1000 );
13311:   'CS_BYTEALIGNWINDOW','LongWord')( $2000 );
13312:   'CS_GLOBALCLASS','LongWord')( $4000 );
13313:   'CS_IME ','LongWord')( $10000 );
13314:   'CS_DROPSHADOW','LongWord')( $20000 );
13315: //TPanelFunc', 'TPanelFunc // will not work
13316:   TPanelStyle', '(psEdge, psTabEdge, psBorder, psTabBorder, psTab, psNone )
13317:   TFontLook', '( flBold, flItalic, flUnderLine, flStrikeOut )
13318:   TFontLooks', 'set of TFontLook
13319: TMessagfunc', 'function(hWnd,iMsg,wParam,lParam:Integer):Integer)
13320: Function SetWinClass(const ClassName:String; pMessFunc: TMessagfunc; wcStyle : Integer): Word
13321: Function SetWinClass0(const ClassName : String; pMessFunc : TObject; wcStyle : Integer): Word
13322: Function SetWinClass(const ClassName : String; pMessFunc : TObject; wcStyle : Integer) : Word
13323: Function MakeForm(Left,Top,Width,Height:Integer;const Caption:String;WinStyle:Integer):Integer
13324: Procedure RunMsgLoop( Show : Boolean )
13325: Function MakeFont(Height,Width:Integer; const FontName:String; Look:TFontLooks; Roman:Boolean): Integer
13326: Function MakeButton(Left,Top,Width,Height:Integer;pCaption:PChar:hParent,
ID_Number:Cardinal;hFont:Int):Int;
13327: Function MakeListBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Integer
13328: Function MakeComboBox(Left,Top,Width,Height,Parent:Integer;const ListItems:String;WinStyle:Integer):Int
13329: Function MakePanel(Left,Top,Width,Height,
hParent:Int;WndFunc:TPanelFunc;ID_Number:Card;Style:TPanelStyle):Int;
13330: Function MakeSubMenu(const ItemList : String; ID1, ID2 : Cardinal; hMenu : Integer) : Integer
13331: Function id4menu( a, b : Byte; c : Byte; d : Byte ) : Cardinal
13332: Procedure DoInitMakeApp //set first to init formclasscontrol!
13333: end;
13334:
13335: procedure SIRegister_ScreenSaver(CL: TPSPascalCompiler);
13336: begin
13337:   TScreenSaverOption', '( ssoAutoAdjustFormProperties, ssoAutoHook'
13338:     +'KeyboardEvents, ssoAutoHookMouseEvents, ssoEnhancedMouseMoveDetection )
13339:   TScreenSaverOptions', 'set of TScreenSaverOption
13340:   'cDefaultScreenSaverOptions','LongInt').Value.ts32:=ord(ssoAutoAdjustFormProperties) or
ord(ssoAutoHookKeyboardEvents) or ord(ssoEnhancedMouseMoveDetection);
13341:   TScreenSaverPreviewEvent', 'Procedure ( Sender : TObject; previewHwnd: HWND )
13342:   SIRegister_TScreensaver(CL);
13343: //Procedure Register
13344: Procedure SetScreenSaverPassword
13345: end;
13346:
13347: procedure SIRegister_XCollection(CL: TPSPascalCompiler);
13348: begin
13349:   FindClass('TOBJECT'),'TXCollection
13350:   SIRegister_EFilerException(CL);
13351:   SIRegister_TXCollectionItem(CL);
13352:   //TXCollectionItemClass', 'class of TXCollectionItem
13353:   SIRegister_TXCollection(CL);
13354:   Procedure RegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13355:   Procedure DeRegisterXCollectionDestroyEvent( notifyEvent : TNotifyEvent )
13356:   Procedure RegisterXCollectionItemClass( aClass : TXCollectionItemClass )

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13357: Procedure UnregisterXCollectionItemClass( aClass : TXCollectionItemClass)
13358: Function FindXCollectionItemClass( const className : String ) : TXCollectionItemClass
13359: Function GetXCollectionItemClassesList( baseClass : TXCollectionItemClass ) : TList
13360: end;
13361:
13362: procedure SIRегистер_XOpenGL(CL: TPSPascalCompiler);
13363: begin
13364:   TMapTexCoordMode', '(mtcmUndefined, mtcmNull, mtcmMain, mtcmDual, mtcmSecond, mtcmArbitrary)';
13365:   Procedure xglMapTexCoordToNull
13366:   Procedure xglMapTexCoordToMain
13367:   Procedure xglMapTexCoordToSecond
13368:   Procedure xglMapTexCoordToDual
13369:   Procedure xglMapTexCoordToArbitrary( const units : array of Cardinal );
13370:   Procedure xglMapTexCoordToArbitrary1( const bitWiseUnits : Cardinal );
13371:   Procedure xglMapTexCoordToArbitraryAdd( const bitWiseUnits : Cardinal )
13372:   Procedure xglBeginUpdate
13373:   Procedure xglEndUpdate
13374:   Procedure xglPushState
13375:   Procedure xglPopState
13376:   Procedure xglForbidSecondTextureUnit
13377:   Procedure xglAllowSecondTextureUnit
13378:   Function xglGetBitWiseMapping : Cardinal
13379: end;
13380:
13381: procedure SIRегистер_VectorLists(CL: TPSPascalCompiler);
13382: begin
13383:   TBaseListOption', '( bloExternalMemory, bloSetCountResetsMemory )
13384:   TBaseListOptions', 'set of TBaseListOption
13385:   SIRегистер_TBaseList(CL);
13386:   SIRегистер_TBaseVectorList(CL);
13387:   SIRегистер_TAffineVectorList(CL);
13388:   SIRегистер_TVectorList(CL);
13389:   SIRегистер_TTextPointList(CL);
13390:   SIRегистер_TXIntegerList(CL);
13391:   //PSingleArrayList', '^TSingleArrayList // will not work
13392:   SIRегистер_TSingleList(CL);
13393:   SIRегистер_TByteList(CL);
13394:   SIRегистер_TQuaternionList(CL);
13395:   Procedure QuickSortLists( startIndex, endIndex : Integer; refList : TSingleList; objList : TList );
13396:   Procedure QuickSortLists1( startIndex, endIndex : Integer; refList : TSingleList; objList : TBaseList );
13397:   Procedure FastQuickSortLists(startIndex,
endIndex:Integer;refList:TSingleList;objList:TPersistentObjectList);
13398: end;
13399:
13400: procedure SIRегистер_MeshUtils(CL: TPSPascalCompiler);
13401: begin
13402:   Procedure ConvertStripToList( const strip : TAffineVectorList; list : TAffineVectorList );
13403:   Procedure ConvertStripToList1( const strip : TIntegerList; list : TIntegerList );
13404:   Procedure ConvertStripToList2( const strip:TAffineVectorList;const
indices:TIntegerList;list:TAffineVectorList );
13405:   Procedure ConvertIndexedListToList( const data:TAffineVectlist;const
indices:TIntegerList;list:TAffineVectorList );
13406:   Function BuildVectorCountOptimizedIndices( const vertices:TAffineVectorList; const
normals:TAffineVectorList; const texCoords : TAffineVectorList ) : TIntegerList
13407:   Procedure RemapReferences( reference : TAffineVectorList; const indices : TIntegerList );
13408:   Procedure RemapReferences1( reference : TIntegerList; const indices : TIntegerList );
13409:   Procedure RemapAndCleanupReferences( reference : TAffineVectorList; indices : TIntegerList )
13410:   Function RemapIndicesToIndicesMap( remapIndices : TIntegerList ) : TIntegerList
13411:   Procedure RemapTrianglesIndices( indices, indicesMap : TIntegerList )
13412:   Procedure RemapIndices( indices, indicesMap : TIntegerList )
13413:   Procedure UnifyTrianglesWinding( indices : TIntegerList )
13414:   Procedure InvertTrianglesWinding( indices : TIntegerList )
13415:   Function BuildNormals( reference : TAffineVectorList; indices : TIntegerList ) : TAffineVectorList
13416:   Function BuildNonOrientedEdgesList(triangleIndices:TIntegerList; triangleEdges : TIntegerList;
edgesTriangles : TIntegerList ) : TIntegerList
13417:   Procedure WeldVertices( vertices : TAffineVectorList; indicesMap : TIntegerList; weldRadius : Single )
13418:   Function StripifyMesh(indices:TIntegerList;maxVertexIndex:Integer;agglomerateLoneTriangles:Boolean);
TPersistentObjectList;
13419:   Procedure IncreaseCoherency( indices : TIntegerList; cacheSize : Integer )
13420:   Procedure SubdivideTriangles( smoothFactor : Single; vertices : TAffineVectorList; triangleIndices : TIntegerList;
normals : TAffineVectorList; onSubdivideEdge : TSubdivideEdgeEvent )
13421: end;
13422:
13423: procedure SIRегистер_JclSysUtils(CL: TPSPascalCompiler);
13424: begin
13425:   Procedure GetAndFillMem( var P : TOBJECT; const Size : Integer; const Value : Byte )
13426:   Procedure FreeMemAndNil( var P : TOBJECT )
13427:   Function PCharOrNil( const S : string ) : PChar
13428:     SIRегистер_TJclReferenceMemoryStream(CL);
13429:     FindClass('TOBJECT','EJclVMTError'
13430:     {Function GetVirtualMethodCount( AClass : TClass ) : Integer
13431:     Function GetVirtualMethod( AClass : TClass; const Index : Integer ) : Pointer
13432:     Procedure SetVirtualMethod( AClass : TClass; const Index : Integer; const Method:Pointer
13433:       PDynamicIndexList', '^TDynamicIndexList // will not work
13434:       PDynamicAddressList', '^TDynamicAddressList // will not work
13435:     Function GetDynamicMethodCount( AClass : TClass ) : Integer
13436:     Function GetDynamicIndexList( AClass : TClass ) : PDynamicIndexList
13437:     Function GetDynamicAddressList( AClass : TClass ) : PDynamicAddressList
13438:     Function HasDynamicMethod( AClass : TClass; Index : Integer ) : Boolean

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13439: Function GetDynamicMethod( AClass : TClass; Index : Integer ) : Pointer
13440: Function GetInitTable( AClass : TClass ) : PTypeInfo
13441:  PFielEntry', '^TFieldEntry // will not work'
13442: TFieldEntry', 'record Offset : Integer; IDX : Word; Name : ShortString; end
13443: Function JIsClass( Address : Pointer ) : Boolean
13444: Function JIsObject( Address : Pointer ) : Boolean
13445: Function GetImplementorOfInterface( const I : IInterface ) : TObject
13446: TBitCount', 'Integer
13447: SIRegister_TJclNumericFormat(CL);
13448: Function JIntToStrZeroPad( Value, Count : Integer ) : AnsiString
13449: TTextHandler', 'Procedure ( const Text : string )
13450: // 'ABORT_EXIT_CODE', 'LongInt'( ERROR_CANCELLED 1223 );
13451: Function JExecute(const
CommandLine:string;OutputLineCallback:TTTextHandler;RawOutput:Bool;AbortPtr:PBool):Cardinal;
13452: Function JExecute1(const CommandLine:string;var Output:string; RawOutput:Bool; AbortPtr:PBool):Cardinal;
13453: Function ReadKey : Char //to and from the DOS console !
13454: TModuleHandle', 'HINST
13455: //TModuleHandle', 'Pointer
13456: 'INVALID_MODULEHANDLE_VALUE','LongInt'( TModuleHandle ( 0 ));
13457: Function LoadModule( var Module : TModuleHandle; FileName : string ) : Boolean
13458: Function LoadModuleEx( var Module : TModuleHandle; FileName : string; Flags : Cardinal ) : Boolean
13459: Procedure UnloadModule( var Module : TModuleHandle )
13460: Function GetModuleSymbol( Module : TModuleHandle; SymbolName : string ) : Pointer
13461: Function GetModuleSymbolEx( Module : TModuleHandle; SymbolName : string; var Accu : Boolean ) : Pointer
13462: Function ReadModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13463: Function WriteModuleData(Module:TModuleHandle;SymbolName:string;var Buffer,Size:Cardinal):Boolean;
13464: FindClass('TOBJECT'), 'EJclConversionError
13465: Function JStrToBoolean( const S : string ) : Boolean
13466: Function JBooleanToStr( B : Boolean ) : string
13467: Function JIntToBool( I : Integer ) : Boolean
13468: Function JBoolToInt( B : Boolean ) : Integer
13469: 'ListSeparator','String ';
13470: 'ListSeparator1','String ';
13471: Procedure ListAddItems( var List : string; const Separator, Items : string )
13472: Procedure ListIncludeItems( var List : string; const Separator, Items : string )
13473: Procedure ListRemoveItems( var List : string; const Separator, Items : string )
13474: Procedure ListDeleteItem( var List : string; const Separator : string; const Index : Integer )
13475: Function ListItemCount( const List, Separator : string ) : Integer
13476: Function ListGetItem( const List, Separator : string; const Index : Integer ) : string
13477: Procedure ListSetItem(var List:string;const Separator:string;const Index:Integer;const Value:string)
13478: Function ListItemIndex( const List, Separator, Item : string ) : Integer
13479: Function SystemToObjectInstance : LongWord
13480: Function IsCompiledWithPackages : Boolean
13481: Function JJclGUIDToString( const GUID : TGUID ) : string
13482: Function JJclStringToGUID( const S : string ) : TGUID
13483: SIRegister_TJclIntfCriticalSection(CL);
13484: SIRegister_TJclSimpleLog(CL);
13485: Procedure InitSimpleLog( const ALogFile : string )
13486: end;
13487:
13488: procedure SIRegister_JclBorlandTools(CL: TPSPascalCompiler);
13489: begin
13490:  FindClass('TOBJECT'), 'EJclBorRADException
13491: TJclBorRADToolKind', '( brDelphi, brCppBuilder, brBorlandDevStudio )'
13492: TJclBorRADToolEdition', '( deOPEN, dePRO, deSVR )'
13493: TJclBorRADToolEdition', '( deSTD, dePRO, deCSS, deARC )'
13494: TJclBorRADToolPath', 'string
13495: 'SupportedDelphiVersions','LongInt'( 5 or 6 or 7 or 8 or 9 or 10 or 11);
13496: 'SupportedBCBVersions','LongInt'( 5 or 6 or 10 or 11);
13497: 'SupportedBDSVersions','LongInt'( 1 or 2 or 3 or 4 or 5);
13498: BorRADToolRepositoryPagesSection', 'String 'Repository Pages
13499: BorRADToolRepositoryDialogsPage', 'String 'Dialogs
13500: BorRADToolRepositoryFormsPage', 'String 'Forms
13501: BorRADToolRepositoryProjectsPage', 'String 'Projects
13502: BorRADToolRepositoryDataModulesPage', 'String 'Data Modules
13503: BorRADToolRepositoryObjectType', 'String 'Type
13504: BorRADToolRepositoryFormTemplate', 'String 'FormTemplate
13505: BorRADToolRepositoryProjectTemplate', 'String 'ProjectTemplate
13506: BorRADToolRepositoryObjectName', 'String 'Name
13507: BorRADToolRepositoryObjectPage', 'String 'Page
13508: BorRADToolRepositoryObjectIcon', 'String 'Icon
13509: BorRADToolRepositoryObjectDescr', 'String 'Description
13510: BorRADToolRepositoryObjectAuthor', 'String 'Author
13511: BorRADToolRepositoryObjectAncestor', 'String 'Ancestor
13512: BorRADToolRepositoryObjectDesigner', 'String 'Designer
13513: BorRADToolRepositoryDesignerDfm', 'String 'dfm
13514: BorRADToolRepositoryDesignerXfm', 'String 'xfm
13515: BorRADToolRepositoryObjectNewForm', 'String 'DefaultNewForm
13516: BorRADToolRepositoryObjectMainForm', 'String 'DefaultMainForm
13517: SourceExtensionDelphiPackage', 'String '.dpk
13518: SourceExtensionBCBPackage', 'String '.bpk
13519: SourceExtensionDelphiProject', 'String '.dpr
13520: SourceExtensionBCBProject', 'String '.bpr
13521: SourceExtensionBDSProject', 'String '.bdsproj
13522: SourceExtensionDProject', 'String '.dproj
13523: BinaryExtensionPackage', 'String '.bpl
13524: BinaryExtensionLibrary', 'String '.dll
13525: BinaryExtensionExecutable', 'String '.exe
13526: CompilerExtensionDCP', 'String '.dcp

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13527: CompilerExtensionBPI', 'String '.bpi
13528: CompilerExtensionLIB', 'String '.lib
13529: CompilerExtensionTDS', 'String '.tds
13530: CompilerExtensionMAP', 'String '.map
13531: CompilerExtensionDRC', 'String '.drc
13532: CompilerExtensionDEF', 'String '.def
13533: SourceExtensionCPP', 'String '.cpp
13534: SourceExtensionH', 'String '.h
13535: SourceExtensionPAS', 'String '.pas
13536: SourceExtensionDFM', 'String '.dfm
13537: SourceExtensionXFM', 'String '.xfm
13538: SourceDescriptionPAS', 'String 'Pascal source file
13539: SourceDescriptionCPP', 'String 'C++ source file
13540: DesignerVCL', 'String 'VCL
13541: DesignerCLX', 'String 'CLX
13542: ProjectTypePackage', 'String 'package
13543: ProjectTypeLibrary', 'String 'library
13544: ProjectTypeProgram', 'String 'program
13545: Personality32Bit', 'String '32 bit
13546: Personality64Bit', 'String '64 bit
13547: PersonalityDelphi', 'String 'Delphi
13548: PersonalityDelphiDotNet', 'String 'Delphi.net
13549: PersonalityBCB', 'String 'C++Builder
13550: PersonalityCSB', 'String 'C#Builder
13551: PersonalityVB', 'String 'Visual Basic
13552: PersonalityDesign', 'String 'Design
13553: PersonalityUnknown', 'String 'Unknown personality
13554: PersonalityBDS', 'String 'Borland Developer Studio
13555: DOFDirectoriesSection', 'String 'Directories
13556: DOFUnitOutputDirKey', 'String 'UnitOutputDir
13557: DOFSearchPathName', 'String 'SearchPath
13558: DOFConditionals', 'String 'Conditionals
13559: DOFLinkerSection', 'String 'Linker
13560: DOFPackagesKey', 'String 'Packages
13561: DOFCompilerSection', 'String 'Compiler
13562: DOFPackageNoLinkKey', 'String 'PackageNoLink
13563: DOFAdditionalSection', 'String 'Additional
13564: DOFOptionsKey', 'String 'Options
13565: TJclBorPersonality', '( bpDelphi32, bpDelphi64, bpBCBuilder32, b'
13566: + pBCBuilder64, bpDelphiNet32, bpDelphiNet64, bpCSBuilder32, bpCSBuilder64, '
13567: + 'bpVisualBasic32, bpVisualBasic64, bpDesign, bpUnknown )
13568: TJclBorPersonalities', 'set of TJclBorPersonality
13569: TJclBorDesigner', '( bdVCL, bdCLX )
13570: TJclBorDesigners', 'set of TJclBorDesigner
13571: TJclBorPlatform', '( bp32bit, bp64bit )
13572: FindClass('TOBJECT'), 'TJclBorRADToolInstallation
13573: SIRegister_TJclBorRADToolInstallationObject(CL);
13574: SIRegister_TJclBorlandOpenHelp(CL);
13575: TJclHelp2Object', '( hoRegisterSession, hoRegister, hoPlugin )
13576: TJclHelp2Objects', 'set of TJclHelp2Object
13577: SIRegister_TJclHelp2Manager(CL);
13578: SIRegister_TJclBorRADToolIdeTool(CL);
13579: SIRegister_TJclBorRADToolIdePackages(CL);
13580: SIRegister_IJclCommandLineTool(CL);
13581: FindClass('TOBJECT'), 'EJclCommandLineToolError
13582: SIRegister_IJclCommandLineTool(CL);
13583: SIRegister_TJclBorlandCommandLineTool(CL);
13584: SIRegister_TJclBCC32(CL);
13585: SIRegister_TJclDCC32(CL);
13586: TJclDCC', 'TJclDCC32
13587: SIRegister_TJclBpr2Mak(CL);
13588: SIRegister_TJclBorlandMake(CL);
13589: SIRegister_TJclBorRADToolPalette(CL);
13590: SIRegister_TJclBorRADToolRepository(CL);
13591: TCommandLineTool', '( clAsm, clBcc32, clDcc32, clDccIL, clMake, clProj2Mak )
13592: TCommandLineTools', 'set of TCommandLineTool
13593: //TJclBorRADToolInstallationClass', 'class of TJclBorRADToolInstallation
13594: SIRegister_TJclBorRADToolInstallation(CL);
13595: SIRegister_TJclBCBInstallation(CL);
13596: SIRegister_TJclDelphiInstallation(CL);
13597: SIRegister_TJclDCCIL(CL);
13598: SIRegister_TJclBDSInstallation(CL);
13599: TTraverseMethod', 'Function ( Installation : TJclBorRADToolInstallation ) : Boolean
13600: SIRegister_TJclBorRADToolInstallations(CL);
13601: Function BPLFileName( const BPLPath, PackageFileName : string ) : string
13602: Function BinaryFileName( const OutputPath, ProjectFileName : string ) : string
13603: Function IsDelphiPackage( const FileName : string ) : Boolean
13604: Function IsDelphiProject( const FileName : string ) : Boolean
13605: Function IsBCBPackage( const FileName : string ) : Boolean
13606: Function IsEBCBProject( const FileName : string ) : Boolean
13607: Procedure GetDPRFileInfo( const DPRFileName:string;out BinaryExtensio:string;const LibSuffix:PString );
13608: Procedure GetBPRFileInfo( const BPRFileName:string;out BinaryFileName:string;const Descript:PString );
13609: Procedure GetDPKFileInfo( const DPKFileName:string;out RunOnly:Bool;const LibSuffix:PString;const
Descript:PString;
13610: Procedure GetBPKFileInfo( const BPKFileName:string;out RunOnly:Bool;const BinaryFName:PString;const
Descript:PString
13611: function SamePath(const Path1, Path2: string): Boolean;
13612: end;
13613:

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13614: procedure SIRegister_JclFileUtils_max(CL: TPSCompiler);
13615: begin
13616:   'ERROR_NO_MORE_FILES','LongInt'( 18 );
13617:   //Function stat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13618:   //Function fstat64( FileDes: Integer;var StatBuffer : TStatBuf64 ) : Integer
13619:   //Function lstat64( FileName: PChar;var StatBuffer : TStatBuf64 ) : Integer
13620:   'LPathSeparator','String '
13621:   'LDirDelimiter','String '
13622:   'LDirSeparator','String :
13623:   'JXPathDevicePrefix','String '\\.\\
13624:   'JXPathSeparator','String \
13625:   'JXDirDelimiter','String \
13626:   'JXDirSeparator','String ';
13627:   'JXPathUncPrefix','String '\\
13628:   'faNormalFile','LongWord')($00000080);
13629:   //faUnixSpecific,' faSymLink';
13630:   JXTCompactPath', '( cpCenter, cpEnd )
13631:     _WIN32_FILE_ATTRIBUTE_DATA', 'record dwFileAttributes : DWORD; f'
13632:     +tCreationTime : TFileTime; ftLastAccessTime : TFileTime; ftLastWriteTime :
13633:     +' TFileTime; nFileSizeHigh : DWORD; nFileSizeLow : DWORD; end
13634:   TWin32FileAttributeData', '_WIN32_FILE_ATTRIBUTE_DATA
13635:   WIN32_FILE_ATTRIBUTE_DATA', '_WIN32_FILE_ATTRIBUTE_DATA
13636:
13637:   Function jxPathAddSeparator( const Path : string ) : string
13638:   Function jxPathAddExtension( const Path, Extension : string ) : string
13639:   Function jxPathAppend( const Path, Append : string ) : string
13640:   Function jxPathBuildRoot( const Drive : Byte ) : string
13641:   Function jxPathCanonicalize( const Path : string ) : string
13642:   Function jxPathCommonPrefix( const Path1, Path2 : string ) : Integer
13643:   Function jxPathCompactPath(const DC:HDC;const Path:string;const Width:Integer;CmpFmt:TCompactPath):string
13644:   Procedure jxPathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
13645:   Function jxPathExtractFileDirFixed( const S : string ) : string
13646:   Function jxPathExtractFileNameNoExt( const Path : string ) : string
13647:   Function jxPathExtractPathDepth( const Path : string; Depth : Integer ) : string
13648:   Function jxPathGetDepth( const Path : string ) : Integer
13649:   Function jxPathGetLongName( const Path : string ) : string
13650:   Function jxPathGetShortName( const Path : string ) : string
13651:   Function jxPathGetLongName( const Path : string ) : string
13652:   Function jxPathGetShortName( const Path : string ) : string
13653:   Function jxPathGetRelativePath( Origin, Destination : string ) : string
13654:   Function jxPathGetTempPath : string
13655:   Function jxPathIsAbsolute( const Path : string ) : Boolean
13656:   Function jxPathIsChild( const Path, Base : string ) : Boolean
13657:   Function jxPathIsDiskDevice( const Path : string ) : Boolean
13658:   Function jxPathIsUNC( const Path : string ) : Boolean
13659:   Function jxPathRemoveSeparator( const Path : string ) : string
13660:   Function jxPathRemoveExtension( const Path : string ) : string
13661:   Function jxPathGetPhysicalPath( const LocalizedPath : string ) : string
13662:   Function jxPathGetLocalizedPath( const PhysicalPath : string ) : string
13663:   JxTFileListOption', '( flFullNames, flRecursive, flMaskedSubfolders )
13664:   JxTFileListOptions', 'set of TFileListOption
13665:   JxTJclAttributeMatch', '( amAny, amExact, amSubSetOf, amSuperSetOf, amCustom )
13666:   TFileHandler', 'Procedure ( const FileName : string )
13667:   TFileHandlerEx', 'Procedure ( const Directory : string; const FileInfo : TSearchRec )
13668:   Function BuildFileList( const Path : string; const Attr : Integer; const List : TStrings ) : Boolean
13669:   //Function AdvBuildFilelist( const Path : string; const Attr : Integer; const Files : TStrings; const
13670:   AttributeMatch:TJclAttributeMatch;const Optis:TFileListOptions;const SubfoldersMask:string;const
13671:   FileMatchFunc:TFileMatchFunc):Bool;
13672:   Function jxVerifyFileAttributeMask( var RejectedAttributes, RequiredAttributes : Int ) : Boolean
13673:   Function jxIsFileAttributeMatch(FileAttributes,RejectedAttributes,RequiredAttributes:Int):Boolean;
13674:   Function jxFolderAttributesStr( const FileInfo : TSearchRec ) : string
13675:   Function jxIsFileNameMatch(FileName:string;const Mask:string;const CaseSensitive:Boolean):Boolean;
13676:   Procedure jxEnumFiles(const Path:string; HandleFile:TFileHandlerEx;
13677:   RejectedAttributes:Integer;RequiredAttributes : Integer; Abort : TObject)
13678:   Procedure jxEnumDirectories(const Root:string;const HandleDirectory:TFileHandler;const
13679:   IncludeHiddenDirects:Boolean;const SubDirectoriesMask:string;Abort:TObject;ResolveSymLinks:Bool)
13680:   Procedure jxCreateEmptyFile( const FileName : string )
13681:   Function jxCloseVolume( var Volume : THandle ) : Boolean
13682:   Function jxDelTreeEx( const Path:string;AbortOnFailure:Boolean; Progress:TDelTreeProgress ):Boolean
13683:   Function jxDiskInDrive( Drive : Char ) : Boolean
13684:   Function jxDirectoryExists( const Name : string; ResolveSymLinks : Boolean ) : Boolean
13685:   Function jxFileCreateTemp( var Prefix : string ) : THandle
13686:   Function jxFileBackup( const FileName : string; Move : Boolean ) : Boolean
13687:   Function jxFileCopy( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13688:   Function jxFileDelete( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13689:   Function jxFileExists( const FileName : string ) : Boolean
13690:   Function jxFileMove( const ExistingFileName, NewFileName : string; ReplaceExisting : Boolean ) : Boolean
13691:   Function jxFileRestore( const FileName : string ) : Boolean
13692:   Function jxGetBackupFileName( const FileName : string ) : string
13693:   Function jxIsBackupFileName( const FileName : string ) : Boolean
13694:   Function jxFileGetDisplayName( const FileName : string ) : string
13695:   Function jxFileGetGroupName( const FileName : string; ResolveSymLinks : Boolean ) : string
13696:   Function jxFileGetOwnerName( const FileName : string; ResolveSymLinks : Boolean ) : string
13697:   Function jxFileGetSize( const FileName : string ) : Int64
13698:   Function jxFileGetTempName( const Prefix : string ) : string

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

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13785: FindClass('TOBJECT'), 'EJclFileUtilsError
13786: FindClass('TOBJECT'), 'EJclTempFileStreamError
13787: FindClass('TOBJECT'), 'EJclTempFileStreamError
13788: FindClass('TOBJECT'), 'EJclFileMappingError
13789: FindClass('TOBJECT'), 'EJclFileMappingViewError
13790: Function jxPathGetLongName2( const Path : string ) : string
13791: Function jxWin32DeleteFile( const FileName : string; MoveToRecycleBin : Boolean ) : Boolean
13792: Function jxWin32MoveFileReplaceExisting( const SrcFileName, DstFileName : string ) : Boolean
13793: Function jxWin32BackupFile( const FileName : string; Move : Boolean ) : Boolean
13794: Function jxWin32RestoreFile( const FileName : string ) : Boolean
13795: Function jxSamePath( const Path1, Path2 : string ) : Boolean
13796: Procedure jxPathListAddItems( var List : string; const Items : string )
13797: Procedure jxPathListIncludeItems( var List : string; const Items : string )
13798: Procedure jxPathListDelItems( var List : string; const Items : string )
13799: Procedure jxPathListDelItem( var List : string; const Index : Integer )
13800: Function jxPathListItemCount( const List : string ) : Integer
13801: Function jxPathListGetItem( const List : string; const Index : Integer ) : string
13802: Procedure jxPathListSetItem( var List : string; const Index : Integer; const Value : string )
13803: Function jxPathListItemIndex( const List, Item : string ) : Integer
13804: Function jxParamName( Idx:Int;const Separator:string;const AllowedPrefixChars:string;TrimName:Bool ):string
13805: Function jxParamValue( Index : Integer; const Separator : string; TrimValue : Boolean ) : string;
13806: Function jxParamValue1(const SearchName:string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string; TrimValue : Boolean) : string;
13807: Function jxParamPos( const SearchName : string; const Separator : string; CaseSensitive : Boolean; const
    AllowedPrefixCharacters : string ) : Integer
13808: end;
13809:
13810: procedure SIRegister_FileUtil(CL: TPSCompiler);
13811: begin
13812:   'UTF8FileHeader','String #$ef#$bb#$bf';
13813:   Function lCompareFilenames( const Ffilename1, Ffilename2 : string ) : integer
13814:   Function lCompareFilenamesIgnoreCase( const Ffilename1, Ffilename2 : string ) : integer
13815:   Function lCompareFilenames( const Ffilename1, Ffilename2 : string; ResolveLinks : boolean ) : integer
13816:   Function lCompareFilenames(Ffilename1:PChar;Len1:int;Ffilename2:PChar;Len2:int;ResolveLinks:boolean):int
13817:   Function lFilenameIsAbsolute( const Thefilename : string ) : boolean
13818:   Function lFilenameIsWinAbsolute( const Thefilename : string ) : boolean
13819:   Function lFilenameIsUnixAbsolute( const Thefilename : string ) : boolean
13820:   Procedure lCheckIfFileIsExecutable( const Afilename : string )
13821:   Procedure lCheckIfFileIsSymlink( const Afilename : string )
13822:   Function lFileIsReadable( const Afilename : string ) : boolean
13823:   Function lFileIsWritable( const Afilename : string ) : boolean
13824:   Function lFileIsText( const Afilename : string ) : boolean
13825:   Function lFileIsText( const Afilename : string; out FileReadable : boolean ) : boolean
13826:   Function lFileIsExecutable( const Afilename : string ) : boolean
13827:   Function lFileIsSymlink( const Afilename : string ) : boolean
13828:   Function lFileIsHardLink( const Afilename : string ) : boolean
13829:   Function lFileSize( const Filename : string ) : int64;
13830:   Function lGetFileDescription( const Afilename : string ) : string
13831:   Function lReadAllLinks( const Ffilename : string; ExceptionOnError : boolean ) : string
13832:   Function lTryReadAllLinks( const Ffilename : string ) : string
13833:   Function lDirPathExists( const FileName : String ) : Boolean
13834:   Function lForceDirectory( DirectoryName : string ) : boolean
13835:   Function lDeleteDirectory( const DirectoryName : string; OnlyChildren : boolean ) : boolean
13836:   Function lProgramDirectory : string
13837:   Function lDirectoryIsWritable( const DirectoryName : string ) : boolean
13838:   Function lExtractFileNameOnly( const Afilename : string ) : string
13839:   Function lExtractFileNameWithoutExt( const Afilename : string ) : string
13840:   Function lCompareFileExt( const Ffilename, Ext : string; CaseSensitive : boolean ) : integer;
13841:   Function lCompareFileExt( const Ffilename, Ext : string ) : integer;
13842:   Function lFilenameIsPascalUnit( const Ffilename : string ) : boolean
13843:   Function lAppendPathDelim( const Path : string ) : string
13844:   Function lChompPathDelim( const Path : string ) : string
13845:   Function lTrimFilename( const Afilename : string ) : string
13846:   Function lCleanAndExpandFilename( const Ffilename : string ) : string
13847:   Function lCleanAndExpandDirectory( const Ffilename : string ) : string
13848:   Function lCreateAbsoluteSearchPath( const SearchPath, BaseDirectory : string ) : string
13849:   Function lCreateRelativePath( const Ffilename, BaseDirectory : string; UsePointDirectory : boolean;
    AlwaysRequireSharedBaseFolder : Boolean ) : string
13850:   Function lCreateAbsolutePath( const Ffilename, BaseDirectory : string ) : string
13851:   Function lFileIsInPath( const Ffilename, Path : string ) : boolean
13852:   Function lFileIsInDirectory( const Ffilename, Directory : string ) : boolean
13853:   TSearchFileInPathFlag', '( sffDontSearchInbasePath, sffSearchLoUpCase )
13854:   TSearchFileInPathFlags', 'set of TSearchFileInPathFlag
13855:   'AllDirectoryEntriesMask','String '*
13856:   Function l GetAllFilesMask : string
13857:   Function lGetExeExt : string
13858:   Function lSearchFileInPath( const Ffilename, basePath, SearchPath, Delimiter : string; Flags :
    TSearchFileInPathFlags ) : string
13859:   Function lSearchAllFilesInPath( const Ffilename, basePath, SearchPath, Delimiter:string;Flags :
    TSearchFileInPathFlags ) : TStrings
13860:   Function lFindDiskFilename( const Ffilename : string ) : string
13861:   Function lFindDiskFileCaseInsensitive( const Ffilename : string ) : string
13862:   Function lFindDefaultExecutablePath( const Executable : string; const BaseDir: string):string
13863:   Function lGetDarwinSystemFilename( Ffilename : string ) : string
13864:   SIRegister_TfileIterator(CL);
13865:   TFileFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13866:   TDirectoryFoundEvent', 'Procedure ( FileIterator : TFileIterator )
13867:   TDirectoryEnterEvent', 'Procedure ( FileIterator : TFileIterator )
13868:   SIRegister_TFileSearcher(CL);

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13869: Function lFindAllFiles( const SearchPath:String;SearchMsk:String;SearchSubDirs:Bool ):TStringList
13870: Function lFindAllDirectories( const SearchPath : string; SearchSubDirs : Boolean ) : TStringList
13871: // TCopyFileFlag', '( cffOverwriteFile, cffCreateDestDirectory, cffPreserveTime )
13872: // TCopyFileFlags', 'set of TCopyFileFlag
13873: Function lCopyFile( const SrcFilename, DestFilename : string; Flags : TCopyFileFlags) : boolean
13874: Function lCopyFile( const SrcFilename, DestFilename : string; PreserveTime : boolean) : boolean
13875: Function lCopyDirTree( const SourceDir, TargetDir : string; Flags : TCopyFileFlags) : Boolean
13876: Function lReadFileToString( const Filename : string) : string
13877: Function lGetTempFilename( const Directory, Prefix : string) : string
13878: {Function NeedRTLAnsi : boolean
13879: Procedure SetNeedRTLAnsi( NewValue : boolean)
13880: Function UTF8ToSys( const s : string) : string
13881: Function SysToUTF8( const s : string) : string
13882: Function ConsoleToUTF8( const s : string) : string
13883: Function UTF8ToConsole( const s : string) : string
13884: Function FileExistsUTF8( const Filename : string) : boolean
13885: Function FileAgeUTF8( const FileName : string) : Longint
13886: Function DirectoryExistsUTF8( const Directory : string) : Boolean
13887: Function ExpandFileNameUTF8( const FileName : string) : string
13888: Function ExpandUNCFileNameUTF8( const FileName : string) : string
13889: Function ExtractShortPathNameUTF8( const FileName : String) : String
13890: Function FindFirstUTF8(const Path: string; Attr : Longint; out Rslt : TSearchRec) : Longint
13891: Function FindNextUTF8( var Rslt : TSearchRec) : Longint
13892: Procedure FindCloseUTF8( var F : TSearchrec)
13893: Function FileSetDateUTF8( const FileName : String; Age : Longint) : Longint
13894: Function FileGetAttrUTF8( const FileName : String) : Longint
13895: Function FileSetAttrUTF8( const Filename : String; Attr : longint) : Longint
13896: Function DeleteFileUTF8( const FileName : String) : Boolean
13897: Function RenameFileUTF8( const OldName, NewName : String) : Boolean
13898: Function FileSearchUTF8( const Name, DirList : String; ImplicitCurrentDir : Boolean) : String
13899: Function FileIsReadOnlyUTF8( const FileName : String) : Boolean
13900: Function GetCurrentDirUTF8 : String
13901: Function SetCurrentDirUTF8( const NewDir : String) : Boolean
13902: Function CreateDirUTF8( const NewDir : String) : Boolean
13903: Function RemoveDirUTF8( const Dir : String) : Boolean
13904: Function ForceDirectoriesUTF8( const Dir : string) : Boolean
13905: Function FileOpenUTF8( const FileName : string; Mode : Integer) : THandle
13906: Function FileCreateUTF8( const FileName : string) : THandle;
13907: Function FileCreateUTF81( const FileName : string; Rights : Cardinal) : THandle;
13908: Function ParamStrUTF8( Param : Integer) : string
13909: Function GetEnvironmentStringUTF8( Index : Integer) : string
13910: Function GetEnvironmentVariableUTF8( const EnvVar : string) : String
13911: Function GetAppConfigDirUTF8( Global : Boolean; Create : boolean) : string
13912: Function GetAppConfigFileUTF8(Global:Boolean; SubDir:boolean; CreateDir : boolean) : string
13913: Function SysErrorMessageUTF8( ErrorCode : Integer) : String
13914: end;
13915:
13916: procedure SIRegister_Keyboard(CL: TPSPascalCompiler);
13917: begin
13918: //VK_F23 = 134;
13919: //{$EXTERNALSYM VK_F24}
13920: //VK_F24 = 135;
13921: TVirtualKeyCode', 'Integer
13922: 'VK_MOUSEWHEELUP','integer'(134);
13923: 'VK_MOUSEWHEELDOWN','integer'(135);
13924: Function glIsKeyDown( c : Char) : Boolean;
13925: Function glIsKeyDownl( vk : TVirtualKeyCode) : Boolean;
13926: Function glKeyPressed( minVkCode : TVirtualKeyCode) : TVirtualKeyCode
13927: Function glVirtualKeyCodeToKeyName( vk : TVirtualKeyCode) : String
13928: Function glKeyNameToVirtualKeyCode( const keyName : String) : TVirtualKeyCode
13929: Function glCharToVirtualKeyCode( c : Char) : TVirtualKeyCode
13930: Procedure glKeyboardNotifyWheelMoved( wheelDelta : Integer)
13931: end;
13932:
13933: procedure SIRegister_GLCrossPlatform(CL: TPSPascalCompiler);
13934: begin
13935: TGLPoint', 'TPoint
13936: //PGLPoint', '^TGLPoint // will not work
13937: TGLRect', 'TRect
13938: //PGLRect', '^TGLRect // will not work
13939: TDelphiColor', 'TColor
13940: TGLPicture', 'TPicture
13941: TGLGraphic', 'TGraphic
13942: TGLBitmap', 'TBitmap
13943: //TGraphicClass', 'class of TGraphic
13944: TGLTextLayout', '( tlTop, tlCenter, tlBottom )
13945: TGLMouseButton', '( mbLeft, mbRight, mbMiddle )
13946: TGLMouseEvent', 'Procedure ( Sender : TObject; Button : TGLMouse'
13947: + 'Button; Shift : TShiftState; X, Y : Integer)
13948: TGLMouseMoveEvent', 'TMouseEvent
13949: TGLKeyEvent', 'TKeyEvent
13950: TGLKeyPressEvent', 'TKeyPressEvent
13951: EGLOSError', 'EWin32Error
13952: EGLOSError', 'EWin32Error
13953: EGLOSError', 'EOSError
13954: 'glsAllFilter', 'string'All // sAllFilter
13955: Function GLPoint( const x, y : Integer) : TGLPoint
13956: Function GLRGB( const r, g, b : Byte) : TColor
13957: Function GLColorToRGB( color : TColor) : TColor

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13958: Function GLGetRValue( rgb : DWORD ) : Byte
13959: Function GLGetGValue( rgb : DWORD ) : Byte
13960: Function GLGetBValue( rgb : DWORD ) : Byte
13961: Procedure GLInitWinColors
13962: Function GLRect( const aLeft, aTop, aRight, aBottom : Integer ) : TGLRect
13963: Procedure GLInflateGLRect( var aRect : TGLRect; dx, dy : Integer )
13964: Procedure GLIntersectGLRect( var aRect : TGLRect; const rect2 : TGLRect )
13965: Procedure GLInformationDlg( const msg : String )
13966: Function GLQuestionDlg( const msg : String ) : Boolean
13967: Function GLInputDlg( const msg : String ) : String
13968: Function GLSavePictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13969: Function GLOpenPictureDialog( var aFileName : String; const aTitle : String ) : Boolean
13970: Function GLApplicationTerminated : Boolean
13971: Procedure GLRaiseLastOSError
13972: Procedure GLFreeAndNil( var anObject: TObject )
13973: Function GLGetDeviceLogicalPixelsX( device : Cardinal ) : Integer
13974: Function GLGetCurrentColorDepth : Integer
13975: Function GLPixelFormatToColorBits( aPixelFormat : TPixelFormat ) : Integer
13976: Function GLBitmapScanLine( aBitmap : TGLBitmap; aRow : Integer ) : Pointer
13977: Procedure GLSleep( length : Cardinal )
13978: Procedure GLQueryPerformanceCounter( var val : Int64 )
13979: Function GLQueryPerformanceFrequency( var val : Int64 ) : Boolean
13980: Function GLStartPrecisionTimer : Int64
13981: Function GLPrecisionTimerLap( const precisionTimer : Int64 ) : Double
13982: Function GLStopPrecisionTimer( const precisionTimer : Int64 ) : Double
13983: Function GLRDTSC : Int64
13984: Procedure GLLoadBitmapFromInstance( ABitmap : TBitmap; AName : string )
13985: Function GLOKMessageBox( const Text, Caption : string ) : Integer
13986: Procedure GLShowHTMLUrl( Url : String )
13987: Procedure GLShowCursor( AShow : boolean )
13988: Procedure GLSetCursorPos( AScreenX, AScreenY : integer )
13989: Procedure GLGetCursorPos( var point : TGLPoint )
13990: Function GLGetScreenWidth : integer
13991: Function GLGetScreenHeight : integer
13992: Function GLGetTickCount : int64
13993: function RemoveSpaces(const str : String) : String;
13994:   TNmNormalMapSpace'( nmsObject, nmsTangent )
13995: Procedure CalcObjectSpaceLightVectors( Light:TAffineVector; Vertices TAffineVectorList; Colors:TVectors )
13996: Procedure SetupTangentSpace( Vertices, Normals, TexCoords, Tangents, BiNormals : TAffineVectorList )
13997: Procedure CalcTangentSpaceLightVectors( Light : TAffineVector; Vertices, Normals, Tangents, BiNormals : TAffineVectorList; Colors : TVectors )
13998: Function CreateObjectSpaceNormalMap( Width, Height : Integer; HiNormals,
HiTexCoords : TAffineVectorList ) : TGLEBitmap
13999: Function CreateTangentSpaceNormalMap( Width, Height : Integer; HiNormals, HiTexCoords, LoNormals,
LoTexCoords, Tangents, BiNormals : TAffineVectorList ) : TGLEBitmap
14000: end;
14001:
14002: procedure SIRegister_GLStarRecord(CL: TPSPascalCompiler);
14003: begin
14004:   TGLStarRecord', 'record RA: Word; DEC: SmallInt; BVColorIndex: Byte; VMagnitude: Byte; end
14005: // PGLStarRecord', '^TGLStarRecord // will not work
14006: Function StarRecordPositionZUp( const starRecord : TGLStarRecord ) : TAffineVector
14007: Function StarRecordPositionYUp( const starRecord : TGLStarRecord ) : TAffineVector
14008: Function StarRecordColor( const starRecord : TGLStarRecord; bias : Single ) : TVector
14009: end;
14010:
14011:
14012: procedure SIRegister_GeometryBB(CL: TPSPascalCompiler);
14013: begin
14014:   TAABB', 'record min : TAffineVector; max : TAffineVector; end
14015: //PAABB', '^TAABB // will not work
14016: TBSphere', 'record Center : TAffineVector; Radius : single; end
14017: TClipRect', 'record Left : Single; Top:Single; Right:Single; Bottom : Single; end
14018: TSpaceContains', '(scNoOverlap, scContainsFully, scContainsPartially )
14019: Function AddBB( var c1 : THmgBoundingBox; const c2 : THmgBoundingBox ) : THmgBoundingBox
14020: Procedure AddAABB( var aabb : TAABB; const aabbl : TAABB )
14021: Procedure SetBB( var c : THmgBoundingBox; const v : TVector )
14022: Procedure SetAABB( var bb : TAABB; const v : TAffineVector )
14023: Procedure BBTransform( var c : THmgBoundingBox; const m : TMatrix )
14024: Procedure AABBTTransform( var bb : TAABB; const m : TMatrix )
14025: Procedure AABBSScale( var bb : TAABB; const v : TAffineVector )
14026: Function BBMinX( const c : THmgBoundingBox ) : Single
14027: Function BBMaxX( const c : THmgBoundingBox ) : Single
14028: Function BBMinY( const c : THmgBoundingBox ) : Single
14029: Function BBMaxY( const c : THmgBoundingBox ) : Single
14030: Function BBMinZ( const c : THmgBoundingBox ) : Single
14031: Function BBMaxZ( const c : THmgBoundingBox ) : Single
14032: Procedure AABBInclude( var bb : TAABB; const p : TAffineVector )
14033: Procedure AABBFromSweep( var SweepAABB : TAABB; const Start, Dest : TVector; const Radius : Single )
14034: Function AABBIntersection( const aabbl, aabb2 : TAABB ) : TAABB
14035: Function BBTAAABB( const aBB : THmgBoundingBox ) : TAABB
14036: Function AABBTAAABB( const anAABB : TAABB ) : THmgBoundingBox
14037: Function AABBToBB1( const anAABB : TAABB; const m : TMatrix ) : THmgBoundingBox
14038: Procedure OffsetAABB( var aabb : TAABB; const delta : TAffineVector );
14039: Procedure OffsetAABB1( var aabb : TAABB; const delta : TVector );
14040: Function IntersectAABBS( const aabb1, aabb2 : TAABB; const m1To2, m2To1 : TMatrix ) : Boolean;
14041: Function IntersectAABBSAbsoluteXY( const aabb1, aabb2 : TAABB ) : Boolean
14042: Function IntersectAABBSAbsoluteXZ( const aabb1, aabb2 : TAABB ) : Boolean
14043: Function IntersectAABBSAbsolute( const aabb1, aabb2 : TAABB ) : Boolean

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14044: Function AABBfitsInAABBAbsolute( const aabb1, aabb2 : TAABB ) : Boolean
14045: Function PointInAABB( const p : TAffineVector; const aabb : TAABB ) : Boolean;
14046: Function PointInAABB1( const p : TVector; const aabb : TAABB ) : Boolean;
14047: Function PlaneIntersectAABB( Normal : TAffineVector; d : single; aabb : TAABB ) : boolean
14048: Function TriangleIntersectAABB( const aabb : TAABB; v1, v2, v3 : TAffineVector ) : boolean
14049: Procedure ExtractAABBCorners( const AABB : TAABB; var AABBCorners : AABBCorners )
14050: Procedure AABBToBSphere( const AABB : TAABB; var BSphere : BSphere )
14051: Procedure BSphereToAABB( const BSphere : BSphere; var AABB : TAABB );
14052: Function BSphereToAABB1( const center : TAffineVector; radius : Single ) : TAABB;
14053: Function BSphereToAABB2( const center : TVector; radius : Single ) : TAABB;
14054: Function AABBContainsAABB( const mainAABB, testAABB : TAABB ) : TSpaceContains
14055: Function BSphereContainsAABB( const mainBSphere : BSphere; const testAABB : TAABB ) : TSpaceContains
14056: Function BSphereContainsBSphere( const mainBSphere, testBSphere : BSphere ) : TSpaceContains
14057: Function AABBContainsBSphere( const mainAABB : TAABB; const testBSphere : BSphere ) : TSpaceContains
14058: Function PlaneContainsBSphere( const Location,Normal:TAffineVector;const
testBSphere:BSphere ):TSpaceContains
14059: Function FrustumContainsBSphere( const Frustum : TFrustum; const testBSphere : BSphere ) : TSpaceContains
14060: Function FrustumContainsAABB( const Frustum : TFrustum; const testAABB : TAABB ) : TSpaceContains
14061: Function ClipToAABB( const v : TAffineVector; const AABB : TAABB ) : TAffineVector
14062: Function BSphereIntersectsBSphere( const mainBSphere, testBSphere : BSphere ) : boolean
14063: Procedure IncludeInClipRect( var clipRect : TClipRect; x, y : Single )
14064: Function AABBToClipRect( const aabb:TAABB;modelViewProjection:TMatrix;viewportSizeX,
viewportSizeY:Int ):TClipRect
14065: end;
14066:
14067: procedure SIRegister_GeometryCoordinates(CL: TPPSPascalCompiler);
14068: begin
14069:   Procedure Cylindrical_Cartesian( const r, theta, z1 : single; var x, y, z : single );
14070:   Procedure Cylindrical_Cartesian1( const r, theta, z1 : double; var x, y, z : double );
14071:   Procedure Cylindrical_Cartesian2( const r,theta,z1 : single; var x, y, z : single; var ierr : integer );
14072:   Procedure Cylindrical_Cartesian3( const r,theta,z1 : double; var x, y, z : double; var ierr : integer );
14073:   Procedure Cartesian_Cylindrical( const x, y, z1 : single; var r, theta, z : single );
14074:   Procedure Cartesian_Cylindrical1( const x, y, z1 : double; var r, theta, z : double );
14075:   Procedure Spherical_Cartesian( const r, theta, phi : single; var x, y, z : single );
14076:   Procedure Spherical_Cartesian1( const r, theta, phi : double; var x, y, z : double );
14077:   Procedure Spherical_Cartesian2( const r,theta, phi : single; var x, y, z : single; var ierr : integer );
14078:   Procedure Spherical_Cartesian3( const r,theta, phi : double; var x, y, z : double; var ierr : integer );
14079:   Procedure Cartesian_Spherical( const x, y, z : single; var r, theta, phi : single );
14080:   Procedure Cartesian_Spherical1( const v : TAffineVector; var r, theta, phi : single );
14081:   Procedure Cartesian_Spherical2( const x, y, z : double; var r, theta, phi : double );
14082:   Procedure ProlateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14083:   Procedure ProlateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14084:   Procedure ProlateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer );
14085:   Procedure ProlateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer );
14086:   Procedure OblateSpheroidal_Cartesian( const xi, eta, phi, a : single; var x, y, z : single );
14087:   Procedure OblateSpheroidal_Cartesian1( const xi, eta, phi, a : double; var x, y, z : double );
14088:   Procedure OblateSpheroidal_Cartesian2( const xi,eta,phi,a:single;var x,y,z:single;var ierr: integer );
14089:   Procedure OblateSpheroidal_Cartesian3( const xi,eta,phi,a:double;var x,y,z:double;var ierr: integer );
14090:   Procedure BipolarCylindrical_Cartesian( const u, v, z1, a : single; var x, y, z : single );
14091:   Procedure BipolarCylindrical_Cartesian1( const u, v, z1, a : double; var x, y, z : double );
14092:   Procedure BipolarCylindrical_Cartesian2( const u,v,z1,a : single;var x,y,z:single; var ierr : integer );
14093:   Procedure BipolarCylindrical_Cartesian3( const u,v,z1,a : double;var x,y,z:double; var ierr : integer );
14094: end;
14095:
14096: procedure SIRegister_VectorGeometry(CL: TPPSPascalCompiler);
14097: begin
14098:   'EPSILON','Single').setExtended( 1e-40 );
14099:   'EPSILON2','Single').setExtended( 1e-30 );  }
14100:   TRenderContextClippingInfo', 'record origin : TVector; clippingD'
14101:     + 'irection : TVector; viewPortRadius : Single; farClippingDistance:Single;frustum:TFrustum; end
14102:   THmgPlane', 'TVector
14103:   TDoublHmgPlane', 'THomogeneousDblVector
14104:   {TTransType', '( ttScaleX, ttScaleY, ttScaleZ, ttShearXY, ttShear'
14105:     + 'XZ, ttShearyZ, ttRotateX, ttRotateY, ttRotateZ, ttTranslateX, ttTranslateY'
14106:     + ', ttTranslateZ, ttPerspectiveX, ttPerspectiveY, ttPerspectiveZ, ttPerspectiveW )}
14107:   TSingleArray', 'array of Single
14108:   TTransformations', 'array [0..15] of Single)
14109:   TPackedRotationMatrix', 'array [0..2] of Smallint)
14110:   TVertex', 'TAffineVector
14111:   //TVectorGL', 'THomogeneousFltVector
14112:   //TMatrixGL', 'THomogeneousFltMatrix
14113:   //  TPackedRotationMatrix = array [0..2] of SmallInt;
14114:   Function glTexPointMake( const s, t : Single ) : TTExPoint
14115:   Function glAffineVectorMake( const x, y, z : Single ) : TAffineVector;
14116:   Function glAffineVectorMakel( const v : TVectorGL ) : TAffineVector;
14117:   Procedure glSetAffineVector( var v : TAffineVector; const x, y, z : Single );
14118:   Procedure glSetVector( var v : TAffineVector; const x, y, z : Single );
14119:   Procedure glSetVector1( var v : TAffineVector; const vSrc : TVectorGL );
14120:   Procedure glSetVector2( var v : TAffineVector; const vSrc : TAffineVector );
14121:   Procedure glSetVector3( var v : TAffineDblVector; const vSrc : TAffineVector );
14122:   Procedure glSetVector4( var v : TAffineDblVector; const vSrc : TVectorGL );
14123:   Function glVectorMake( const v : TAffineVector; w : Single ) : TVectorGL;
14124:   Function glVectorMakel( const x, y, z : Single; w : Single ) : TVectorGL;
14125:   Function glPointMake( const x, y, z : Single ) : TVectorGL;
14126:   Function glPointMakel( const v : TAffineVector ) : TVectorGL;
14127:   Function glPointMake2( const v : TVectorGL ) : TVectorGL;
14128:   Procedure glSetVector5( var v : TVectorGL; const x, y, z : Single; w : Single );
14129:   Procedure glSetVector6( var v : TVectorGL; const av : TAffineVector; w : Single );
14130:   Procedure glglSetVector7( var v : TVectorGL; const vSrc : TVectorGL );

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14131: Procedure glMakePoint( var v : TVectorGL; const x, y, z : Single);
14132: Procedure glMakePoint1( var v : TVectorGL; const av : TAffineVector);
14133: Procedure glMakePoint2( var v : TVectorGL; const av : TVectorGL);
14134: Procedure glMakeVector( var v : TAffineVector; const x, y, z : Single);
14135: Procedure glMakeVector1( var v : TVectorGL; const x, y, z : Single);
14136: Procedure glMakeVector2( var v : TVectorGL; const av : TAffineVector);
14137: Procedure glMakeVector3( var v : TVectorGL; const av : TVectorGL);
14138: Procedure glRstVector( var v : TAffineVector);
14139: Procedure glRstVector1( var v : TVectorGL);
14140: Function glVectorAdd( const v1, v2 : TAffineVector ) : TAffineVector;
14141: Procedure glVectorAdd1( const v1, v2 : TAffineVector; var vr : TAffineVector );
14142: //Procedure VectorAdd2( const v1, v2 : TAffineVector; vr : PAffineVector );
14143: Function glVectorAdd3( const v1, v2 : TVectorGL ) : TVectorGL;
14144: Procedure glVectorAdd4( const v1, v2 : TVectorGL; var vr : TVectorGL );
14145: Function glVectorAdd5( const v : TAffineVector; const f : Single ) : TAffineVector;
14146: Function glVectorAdd6( const v : TVectorGL; const f : Single ) : TVectorGL;
14147: Procedure glAddVector7( var v1 : TAffineVector; const v2 : TAffineVector );
14148: Procedure glAddVector8( var v1 : TAffineVector; const v2 : TVectorGL );
14149: Procedure glAddVector9( var v1 : TVectorGL; const v2 : TVectorGL );
14150: Procedure glAddVector10( var v : TAffineVector; const f : Single );
14151: Procedure glAddVector11( var v : TVectorGL; const f : Single );
14152: //Procedure TexPointArrayAdd(const src:PTexPointArray;const delta:TTexPoint;const nb:Int;dest:PTexPointArray);
14153: //Procedure TexPointArrayScaleAndAdd(const src:PTexPointArray;const delta:TTexPoint;const nb:Integer;const scale: TTexPoint; dest : PTexPointArray);
14154: //Procedure VectorArrayAdd(const src:PAffineVectorArray;const delta:TAffineVector;const nb:Integer;dest : PAffineVectorArray);
14155: Function glVectorSubtract( const V1, V2 : TAffineVector ) : TAffineVector;
14156: Procedure glVectorSubtract1( const v1, v2 : TAffineVector; var result : TAffineVector );
14157: Procedure glVectorSubtract2( const v1, v2 : TAffineVector; var result : TVectorGL );
14158: Procedure glVectorSubtract3( const v1 : TVectorGL; v2 : TAffineVector; var result : TVectorGL );
14159: Function glVectorSubtract4( const V1, V2 : TVectorGL ) : TVectorGL;
14160: Procedure glVectorSubtract5( const v1, v2 : TVectorGL; var result : TVectorGL );
14161: Procedure glVectorSubtract6( const v1, v2 : TVectorGL; var result : TAffineVector );
14162: Function glVectorSubtract7( const v1 : TAffineVector; delta : Single ) : TAffineVector;
14163: Function glVectorSubtract8( const v1 : TVectorGL; delta : Single ) : TVectorGL;
14164: Procedure glSubtractVector9( var V1 : TAffineVector; const V2 : TAffineVector );
14165: Procedure glSubtractVector10( var V1 : TVectorGL; const V2 : TVectorGL );
14166: Procedure glCombineVector( var vr : TAffineVector; const v : TAffineVector; var f : Single );
14167: //Procedure CombineVector1( var vr : TAffineVector; const v : TAffineVector; pf : PFloat );
14168: Function glTexPointCombine( const t1, t2 : TTexPoint; f1, f2 : Single ) : TTexPoint;
14169: Function glVectorCombine2( const V1, V2 : TAffineVector; const F1, F2 : Single ) : TAffineVector;
14170: Function glVectorCombine33( const V1, V2, V3 : TAffineVector; const F1, F2, F3 : Single ) : TAffineVector;
14171: Procedure glVectorCombine34( const V1,V2,V3:TAffineVector; const F1,F2,F3: Single; var vr : TAffineVector );
14172: Procedure glCombineVector5( var vr : TVectorGL; const v : TVectorGL; var f : Single );
14173: Procedure glCombineVector6( var vr : TVectorGL; const v : TAffineVector; var f : Single );
14174: Function glVectorCombine7( const V1, V2 : TVectorGL; const F1, F2 : Single ) : TVectorGL;
14175: Function glVectorCombine8( const V1 : TVectorGL; const V2 : TAffineVector; const F1,F2:Single ): TVectorGL;
14176: Procedure glVectorCombine9( const V1:TVectorGL;const V2:TAffineVector;const F1,F2:Single;var vr:TVectorGL );
14177: Procedure glVectorCombine10( const V1, V2 : TVectorGL; const F1, F2 : Single; var vr : TVectorGL );
14178: Procedure glVectorCombine11( const V1, V2 : TVectorGL; const F2 : Single; var vr : TVectorGL );
14179: Function glVectorCombine3( const V1, V2, V3 : TVectorGL; const F1, F2, F3 : Single ) : TVectorGL;
14180: Procedure glVectorCombine31( const V1, V2, V3 : TVectorGL; const F1, F2, F3:Single; var vr : TVectorGL );
14181: Function glVectorDotProduct( const V1, V2 : TAffineVector ) : Single;
14182: Function glVectorDotProduct1( const V1, V2 : TVectorGL ) : Single;
14183: Function glVectorDotProduct2( const V1 : TVectorGL; const V2 : TAffineVector ) : Single;
14184: Function glPointProject( const p, origin, direction : TAffineVector ) : Single;
14185: Function glPointProject1( const p, origin, direction : TVectorGL ) : Single;
14186: Function glVectorCrossProduct( const V1, V2 : TAffineVector ) : TAffineVector;
14187: Function glVectorCrossProduct1( const V1, V2 : TVectorGL ) : TVectorGL;
14188: Procedure glVectorCrossProduct2( const v1, v2 : TVectorGL; var vr : TVectorGL );
14189: Procedure glVectorCrossProduct3( const v1, v2 : TAffineVector; var vr : TVectorGL );
14190: Procedure glVectorCrossProduct4( const v1, v2 : TVectorGL; var vr : TAffineVector );
14191: Procedure glVectorCrossProduct5( const v1, v2 : TAffineVector; var vr : TAffineVector );
14192: Function glLerp( const start, stop, t : Single ) : Single;
14193: Function glAngleLerp( start, stop, t : Single ) : Single;
14194: Function glDistanceBetweenAngles( angle1, angle2 : Single ) : Single;
14195: Function glTexPointLerp( const t1, t2 : TTexPoint; t : Single ) : TTexPoint;
14196: Function glVectorLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14197: Procedure glVectorLerp1( const v1, v2 : TAffineVector; t : Single; var vr : TAffineVector );
14198: Function glVectorLerp2( const v1, v2 : TVectorGL; t : Single ) : TVectorGL;
14199: Procedure glVectorLerp3( const v1, v2 : TVectorGL; t : Single; var vr : TVectorGL );
14200: Function glVectorAngleLerp( const v1, v2 : TAffineVector; t : Single ) : TAffineVector;
14201: Function glVectorAngleCombine( const v1, v2 : TAffineVector; f : Single ) : TAffineVector;
14202: // Procedure VectorArrayLerp( const src1, src2:PVectorArray; t:Single; n:Integer; dest:PVectorArray );
14203: // Procedure VectorArrayLerp1( const src1, src2 : PAffineVectorArray; t : Single; n : Integer; dest : PAffineVectorArray );
14204: Function glVectorLength( const x, y : Single ) : Single;
14205: Function glVectorLength1( const x, y, z : Single ) : Single;
14206: Function glVectorLength2( const v : TAffineVector ) : Single;
14207: Function glVectorLength3( const v : TVectorGL ) : Single;
14208: Function glVectorLength4( const v : array of Single ) : Single;
14209: Function glVectorNorm( const x, y : Single ) : Single;
14210: Function glVectorNorm1( const v : TAffineVector ) : Single;
14211: Function glVectorNorm2( const v : TVectorGL ) : Single;
14212: Function glVectorNorm3( var V : array of Single ) : Single;
14213: Procedure glNormalizeVector( var v : TAffineVector );
14214: Procedure glNormalizeVector1( var v : TVectorGL );
14215: Function glVectorNormalize( const v : TAffineVector ) : TAffineVector;

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14216: Function glVectorNormalize( const v : TVectorGL ) : TVectorGL;
14217: // Procedure NormalizeVectorArray( list : PAffineVectorArray; n : Integer );
14218: Function glVectorAngleCosine( const V1, V2 : TAffineVector ) : Single;
14219: Function glVectorNegate( const v : TAffineVector ) : TAffineVector;
14220: Function glVectorNegate1( const v : TVectorGL ) : TVectorGL;
14221: Procedure glNegateVector( var V : TAffineVector );
14222: Procedure glNegateVector2( var V : TVectorGL );
14223: Procedure glNegateVector3( var V : array of Single );
14224: Procedure glScaleVector( var v : TAffineVector; factor : Single );
14225: Procedure glScaleVector1( var v : TAffineVector; const factor : TAffineVector );
14226: Procedure glScaleVector2( var v : TVectorGL; factor : Single );
14227: Procedure glScaleVector3( var v : TVectorGL; const factor : TVectorGL );
14228: Function glVectorScale( const v : TAffineVector; factor : Single ) : TAffineVector;
14229: Procedure glVectorScale1( const v : TAffineVector; factor : Single; var vr : TAffineVector );
14230: Function glVectorScale2( const v : TVectorGL; factor : Single ) : TVectorGL;
14231: Procedure glVectorScale3( const v : TVectorGL; factor : Single; var vr : TVectorGL );
14232: Procedure glVectorScale4( const v : TVectorGL; factor : Single; var vr : TAffineVector );
14233: Procedure glDivideVector( var v : TVectorGL; const divider : TVectorGL );
14234: Function glVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14235: Function glVectorEquals1( const V1, V2 : TAffineVector ) : Boolean;
14236: Function glAffineVectorEquals( const V1, V2 : TVectorGL ) : Boolean;
14237: Function glVectorIsNull( const v : TVectorGL ) : Boolean;
14238: Function glVectorIsNotNull( const v : TAffineVector ) : Boolean;
14239: Function glVectorSpacing( const v1, v2 : TTExPoint ) : Single;
14240: Function glVectorSpacing1( const v1, v2 : TAffineVector ) : Single;
14241: Function glVectorSpacing2( const v1, v2 : TVectorGL ) : Single;
14242: Function glVectorDistance( const v1, v2 : TAffineVector ) : Single;
14243: Function glVectorDistance1( const v1, v2 : TVectorGL ) : Single;
14244: Function glVectorDistance2( const v1, v2 : TAffineVector ) : Single;
14245: Function glVectorDistance21( const v1, v2 : TVectorGL ) : Single;
14246: Function glVectorPerpendicular( const V, N : TAffineVector ) : TAffineVector;
14247: Function glVectorReflect( const V, N : TAffineVector ) : TAffineVector;
14248: Procedure glRotateVector( var vector : TVectorGL; const axis : TAffineVector; angle : Single );
14249: Procedure glRotateVector1( var vector : TVectorGL; const axis : TVectorGL; angle : Single );
14250: Procedure glRotateVectorAroundY( var v : TAffineVector; alpha : Single );
14251: Function glVectorRotateAroundX( const v : TAffineVector; alpha : Single ) : TAffineVector;
14252: Function glVectorRotateAroundY( const v : TAffineVector; alpha : Single ) : TAffineVector;
14253: Procedure glVectorRotateAroundY1( const v : TAffineVector; alpha : Single; var vr : TAffineVector );
14254: Function glVectorRotateAroundZ( const v : TAffineVector; alpha : Single ) : TAffineVector;
14255: Procedure glAbsVector( var v : TVectorGL );
14256: Procedure glAbsVector1( var v : TAffineVector );
14257: Function glVectorAbs( const v : TVectorGL ) : TVectorGL;
14258: Function glVectorAbs1( const v : TAffineVector ) : TAffineVector;
14259: Procedure glSetMatrix( var dest : THomogeneousDblMatrix; const src : TMatrixGL );
14260: Procedure glSetMatrix1( var dest : TAffineMatrix; const src : TMatrixGL );
14261: Procedure glSetMatrix2( var dest : TMatrixGL; const src : TAffineMatrix );
14262: Procedure glSetMatrixRow( var dest : TMatrixGL; rowNb : Integer; const aRow : TVectorGL );
14263: Function glCreateScaleMatrix( const v : TAffineVector ) : TMatrixGL;
14264: Function glCreateScaleMatrix1( const v : TVectorGL ) : TMatrixGL;
14265: Function glCreateTranslationMatrix( const V : TAffineVector ) : TMatrixGL;
14266: Function glCreateTranslationMatrix1( const V : TVectorGL ) : TMatrixGL;
14267: Function glCreateScaleAndTranslationMatrix( const scale, offset : TVectorGL ) : TMatrixGL;
14268: Function glCreateRotationMatrixX( const sine, cosine : Single ) : TMatrixGL;
14269: Function glCreateRotationMatrixX1( const angle : Single ) : TMatrixGL;
14270: Function glCreateRotationMatrixY( const sine, cosine : Single ) : TMatrixGL;
14271: Function glCreateRotationMatrixY1( const angle : Single ) : TMatrixGL;
14272: Function glCreateRotationMatrixZ( const sine, cosine : Single ) : TMatrixGL;
14273: Function glCreateRotationMatrixZ1( const angle : Single ) : TMatrixGL;
14274: Function glCreateRotationMatrix( const anAxis : TAffineVector; angle : Single ) : TMatrixGL;
14275: Function glCreateRotationMatrix1( const anAxis : TVectorGL; angle : Single ) : TMatrixGL;
14276: Function glCreateAffineRotationMatrix( const anAxis : TAffineVector; angle : Single ) : TAffineMatrix;
14277: Function glMatrixMultiply( const M1, M2 : TAffineMatrix ) : TAffineMatrix;
14278: Function glMatrixMultiply1( const M1, M2 : TMatrixGL ) : TMatrixGL;
14279: Procedure glMatrixMultiply2( const M1, M2 : TMatrixGL; var MResult : TMatrixGL );
14280: Function glVectorTransform( const V : TVectorGL; const M : TMatrixGL ) : TVectorGL;
14281: Function glVectorTransform1( const V : TVectorGL; const M : TAffineMatrix ) : TVectorGL;
14282: Function glVectorTransform2( const V : TAffineVector; const M : TMatrixGL ) : TAffineVector;
14283: Function glVectorTransform3( const V : TAffineVector; const M : TAffineMatrix ) : TAffineVector;
14284: Function glMatrixDeterminant( const M : TAffineMatrix ) : Single;
14285: Function glMatrixDeterminant1( const M : TMatrixGL ) : Single;
14286: Procedure glAdjointMatrix( var M : TMatrixGL );
14287: Procedure glAdjointMatrix1( var M : TAffineMatrix );
14288: Procedure glScaleMatrix( var M : TAffineMatrix; const factor : Single );
14289: Procedure glScaleMatrix1( var M : TMatrixGL; const factor : Single );
14290: Procedure glTranslateMatrix( var M : TMatrixGL; const v : TAffineVector );
14291: Procedure glTranslateMatrix1( var M : TMatrixGL; const v : TVectorGL );
14292: Procedure glNormalizeMatrix( var M : TMatrixGL );
14293: Procedure glTransposeMatrix( var M : TAffineMatrix );
14294: Procedure glTransposeMatrix1( var M : TMatrixGL );
14295: Procedure glInvertMatrix( var M : TMatrixGL );
14296: Procedure glInvertMatrix1( var M : TAffineMatrix );
14297: Function glAnglePreservingMatrixInvert( const mat : TMatrixGL ) : TMatrixGL;
14298: Function glMatrixDecompose( const M : TMatrixGL; var Tran : TTransformations ) : Boolean;
14299: Function glPlaneMake( const p1, p2, p3 : TAffineVector ) : THmgPlane;
14300: Function glPlaneMake1( const p1, p2, p3 : TVectorGL ) : THmgPlane;
14301: Function glPlaneMake2( const point, normal : TAffineVector ) : THmgPlane;
14302: Function glPlaneMake3( const point, normal : TVectorGL ) : THmgPlane;
14303: Procedure glSetPlane( var dest : TDoubleHmgPlane; const src : THmgPlane );
14304: Procedure glNormalizePlane( var plane : THmgPlane )

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14305: Function glPlaneEvaluatePoint( const plane : THmgPlane; const point : TAffineVector ) : Single;
14306: Function glPlaneEvaluatePoint1( const plane : THmgPlane; const point : TVectorGL ) : Single;
14307: Function glCalcPlaneNormal( const p1, p2, p3 : TAffineVector ) : TAffineVector;
14308: Procedure glCalcPlaneNormal1( const p1, p2, p3 : TAffineVector; var vr : TAffineVector );
14309: Procedure glCalcPlaneNormal2( const p1, p2, p3 : TVectorGL; var vr : TAffineVector );
14310: Function glPointIsInHalfSpace( const point, planePoint, planeNormal : TVectorGL ) : Boolean;
14311: Function glPointIsInHalfSpace1( const point, planePoint, planeNormal : TAffineVector ) : Boolean;
14312: Function glPointPlaneDistance( const point, planePoint, planeNormal : TVectorGL ) : Single;
14313: Function glPointPlaneDistance1( const point, planePoint, planeNormal : TAffineVector ) : Single;
14314: Function glPointSegmentClosestPoint( const point, segmentStart, segmentStop : TAffineVector ) : TAffineVector;
14315: Function glPointSegmentDistance( const point, segmentStart, segmentStop : TAffineVector ) : single;
14316: Function glPointLineClosestPoint( const point, linePoint, lineDirection : TAffineVector ) : TAffineVector;
14317: Function glPointLineDistance( const point, linePoint, lineDirection : TAffineVector ) : Single;
14318: Procedure SgsegmentSegmentClosestPoint( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector; var Segment0Closest, Segment1Closest : TAffineVector );
14319: Function glSegmentSegmentDistance( const S0Start, S0Stop, S1Start, S1Stop : TAffineVector ) : single;
14320: TEulerOrder', '( eulXYZ, eulXZY, eulYXZ, eulYZX, eulZXY, eulZYX )
14321: Function glQuaternionMake( const Imag : array of Single; Real : Single ) : TQuaternion;
14322: Function glQuaternionConjugate( const Q : TQuaternion ) : TQuaternion;
14323: Function glQuaternionMagnitude( const Q : TQuaternion ) : Single;
14324: Procedure glNormalizeQuaternion( var Q : TQuaternion );
14325: Function glQuaternionFromPoints( const V1, V2 : TAffineVector ) : TQuaternion;
14326: Procedure glQuaternionToPoints( const Q : TQuaternion; var ArcFrom, ArcTo : TAffineVector );
14327: Function glQuaternionFromMatrix( const mat : TMatrixGL ) : TQuaternion;
14328: Function glQuaternionToMatrix( quat : TQuaternion ) : TMatrixGL;
14329: Function glQuaternionToAffineMatrix( quat : TQuaternion ) : TAffineMatrix;
14330: Function glQuaternionFromAngleAxis( const angle : Single; const axis : TAffineVector ) : TQuaternion;
14331: Function glQuaternionFromRollPitchYaw( const r, p, y : Single ) : TQuaternion;
14332: Function glQuaternionFromEuler( const x, y, z : Single; eulerOrder : TEulerOrder ) : TQuaternion;
14333: Function glQuaternionMultiply( const qL, qR : TQuaternion ) : TQuaternion;
14334: Function glQuaternionSlerp( const QStart, QEnd : TQuaternion; Spin : Integer; t : Single ) : TQuaternion;
14335: Function glQuaternionSlerp1( const source, dest : TQuaternion; const t : Single ) : TQuaternion;
14336: Function glLnXp1( X : Extended ) : Extended;
14337: Function glLog10( X : Extended ) : Extended;
14338: Function glLog2( X : Extended ) : Extended;
14339: Function glLog1( X : Single ) : Single;
14340: Function glLogN( Base, X : Extended ) : Extended;
14341: Function glIntPower( Base : Extended; Exponent : Integer ) : Extended;
14342: Function glPower( const Base, Exponent : Single ) : Single;
14343: Function glPower1( Base : Single; Exponent : Integer ) : Single;
14344: Function glDegToRad( const Degrees : Extended ) : Extended;
14345: Function glDegToRad1( const Degrees : Single ) : Single;
14346: Function glRadToDeg( const Radians : Extended ) : Extended;
14347: Function glRadToDeg1( const Radians : Single ) : Single;
14348: Function glNormalizeAngle( angle : Single ) : Single;
14349: Function glNormalizeDegAngle( angle : Single ) : Single;
14350: Procedure glSinCos( const Theta : Extended; var Sin, Cos : Extended );
14351: Procedure glSinCos1( const Theta : Double; var Sin, Cos : Double );
14352: Procedure glSinCos( const Theta : Single; var Sin, Cos : Single );
14353: Procedure glSinCos1( const theta, radius : Double; var Sin, Cos : Extended );
14354: Procedure glSinCos2( const theta, radius : Double; var Sin, Cos : Double );
14355: Procedure glSinCos3( const theta, radius : Single; var Sin, Cos : Single );
14356: Procedure glPrepareSinCosCache( var s, c : array of Single; startAngle, stopAngle : Single );
14357: Function glArcCos( const X : Extended ) : Extended;
14358: Function glArcCos1( const x : Single ) : Single;
14359: Function glArcSin( const X : Extended ) : Extended;
14360: Function glArcSin1( const X : Single ) : Single;
14361: Function glArcTan2l( const Y, X : Extended ) : Extended;
14362: Function glArcTan2l( const Y, X : Single ) : Single;
14363: Function glFastArcTan2( y, x : Single ) : Single;
14364: Function glTan( const X : Extended ) : Extended;
14365: Function glTan1( const X : Single ) : Single;
14366: Function glCoTan( const X : Extended ) : Extended;
14367: Function glCoTan1( const X : Single ) : Single;
14368: Function glSinh( const x : Single ) : Single;
14369: Function glSinh1( const x : Double ) : Double;
14370: Function glCosh( const x : Single ) : Single;
14371: Function glCosh1( const x : Double ) : Double;
14372: Function glRSqrt( v : Single ) : Single;
14373: Function glRLength( x, y : Single ) : Single;
14374: Function glISqrt( i : Integer ) : Integer;
14375: Function glILength( x, y : Integer ) : Integer;
14376: Function glILength1( x, y, z : Integer ) : Integer;
14377: Procedure glRegisterBasedExp;
14378: Procedure glRandomPointOnSphere( var p : TAffineVector );
14379: Function glRoundInt( v : Single ) : Single;
14380: Function glRoundInt1( v : Extended ) : Extended;
14381: Function glTrunc( v : Single ) : Integer;
14382: Function glTrunc64( v : Extended ) : Int64;
14383: Function glInt( v : Single ) : Single;
14384: Function glInt1( v : Extended ) : Extended;
14385: Function glFrac( v : Single ) : Single;
14386: Function glFrac1( v : Extended ) : Extended;
14387: Function glRound( v : Single ) : Integer;
14388: Function glRound64( v : Single ) : Int64;
14389: Function glRound641( v : Extended ) : Int64;
14390: Function glTrunc( X : Extended ) : Int64;
14391: Function glRound( X : Extended ) : Int64;
14392: Function glFrac( X : Extended ) : Extended;

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14393: Function glCeil( v : Single ) : Integer;
14394: Function glCeil64( v : Extended ) : Int64;
14395: Function glFloor( v : Single ) : Integer;
14396: Function glFloor64( v : Extended ) : Int64;
14397: Function glScaleAndRound( i : Integer; var s : Single ) : Integer
14398: Function glSign( x : Single ) : Integer
14399: Function glIsInRange( const x, a, b : Single ) : Boolean;
14400: Function glIsInRange1( const x, a, b : Double ) : Boolean;
14401: Function glIsInCube( const p, d : TAffineVector ) : Boolean;
14402: Function glIsInCubel( const p, d : TVectorGL ) : Boolean;
14403: //Function MinFloat( values : PSingleArray; nbItems : Integer ) : Single;
14404: //Function MinFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14405: //Function MinFloat2( values : PExtendedArray; nbItems : Integer ) : Extended;
14406: Function glMinFloat3( const v1, v2 : Single ) : Single;
14407: Function glMinFloat4( const v : array of Single ) : Single;
14408: Function glMinFloat5( const v1, v2 : Double ) : Double;
14409: Function glMinFloat6( const v1, v2 : Extended ) : Extended;
14410: Function glMinFloat7( const v1, v2, v3 : Single ) : Single;
14411: Function glMinFloat8( const v1, v2, v3 : Double ) : Double;
14412: Function glMinFloat9( const v1, v2, v3 : Extended ) : Extended;
14413: //Function MaxFloat10( values : PSingleArray; nbItems : Integer ) : Single;
14414: //Function MaxFloat1( values : PDoubleArray; nbItems : Integer ) : Double;
14415: //Function MaxFloat1( values : PExtendedArray; nbItems : Integer ) : Extended;
14416: Function glMaxFloat2( const v : array of Single ) : Single;
14417: Function glMaxFloat3( const v1, v2 : Single ) : Single;
14418: Function glMaxFloat4( const v1, v2 : Double ) : Double;
14419: Function glMaxFloat5( const v1, v2 : Extended ) : Extended;
14420: Function glMaxFloat6( const v1, v2, v3 : Single ) : Single;
14421: Function glMaxFloat7( const v1, v2, v3 : Double ) : Double;
14422: Function glMaxFloat8( const v1, v2, v3 : Extended ) : Extended;
14423: Function glMinInteger9( const v1, v2 : Integer ) : Integer;
14424: Function glMinInteger( const v1, v2 : Cardinal ) : Cardinal;
14425: Function glMaxInteger( const v1, v2 : Integer ) : Integer;
14426: Function glMaxInteger1( const v1, v2 : Cardinal ) : Cardinal;
14427: Function glTriangleArea( const p1, p2, p3 : TAffineVector ) : Single;
14428: //Function PolygonArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14429: Function glTriangleSignedArea( const p1, p2, p3 : TAffineVector ) : Single;
14430: //Function PolygonSignedArea( const p : PAffineVectorArray; nSides : Integer ) : Single;
14431: //Procedure ScaleFloatArray( values : PSingleArray; nb : Integer; var factor : Single );
14432: Procedure glScaleFloatArray( var values : TSingleArray; factor : Single );
14433: //Procedure OffsetFloatArray( values : PSingleArray; nb : Integer; var delta : Single );
14434: Procedure glOffsetFloatArray1( var values : array of Single; delta : Single );
14435: //Procedure OffsetFloatArray2( valuesDest, valuesDelta : PSingleArray; nb : Integer );
14436: Function glMaxXYZComponent( const v : TVectorGL ) : Single;
14437: Function glMaxXYZComponent1( const v : TAffineVector ) : single;
14438: Function glMinXYZComponent( const v : TVectorGL ) : Single;
14439: Function glMinXYZComponent1( const v : TAffineVector ) : single;
14440: Function glMaxAbsXYZComponent( v : TVectorGL ) : Single;
14441: Function glMinAbsXYZComponent( v : TVectorGL ) : Single;
14442: Procedure glMaxVector( var v : TVectorGL; const v1 : TVectorGL );
14443: Procedure glMaxVector1( var v : TAffineVector; const v1 : TAffineVector );
14444: Procedure glMinVector( var v : TVectorGL; const v1 : TVectorGL );
14445: Procedure glMinVector1( var v : TAffineVector; const v1 : TAffineVector );
14446: Procedure glSortArrayAscending( var a : array of Extended );
14447: Function glClampValue( const aValue, aMin, aMax : Single ) : Single;
14448: Function glClampValue1( const aValue, aMin : Single ) : Single;
14449: Function glGeometryOptimizationMode : String;
14450: Procedure glBeginFPUOnlySection;
14451: Procedure glEndFPUOnlySection;
14452: Function glConvertRotation( const Angles : TAffineVector ) : TVectorGL;
14453: Function glMakeAffineDblVector( var v : array of Double ) : TAffineDblVector;
14454: Function glMakeDblVector( var v : array of Double ) : THomogeneousDblVector;
14455: Function glVectorAffineDblToFlt( const v : TAffineDblVector ) : TAffineVector;
14456: Function glVectorDblToFlt( const v : THomogeneousDblVector ) : THomogeneousVector;
14457: Function glVectorAffineFltToDbl( const v : TAffineVector ) : TAffineDblVector;
14458: Function glVectorFltToDbl( const v : TVectorGL ) : THomogeneousDblVector;
14459: Function glPointInPolygon( var xp, yp : array of Single; x, y : Single ) : Boolean;
14460: Procedure glDivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word );
14461: Function glTurn( const Matrix : TMatrixGL; angle : Single ) : TMatrixGL;
14462: Function glTurn1( const Matrix : TMatrixGL; const MasterUp:TAffineVector;Angle:Single):TMatrixGL;
14463: Function glPitch( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14464: Function glPitch1( const Matrix:TMatrixGL;const MasterRight:TAffineVector;Angle:Single):TMatrixGL;
14465: Function glRoll( const Matrix : TMatrixGL; Angle : Single ) : TMatrixGL;
14466: Function glRoll1(const Matrix: TMatrixGL;const MasterDirection:TAffineVector;Angle: Single): TMatrixGL;
14467: Function glRayCastMinDistToPoint( const rayStart, rayVector : TVectorGL;const point:TVectorGL):Single;
14468: Function glRayCastIntersectsSphere( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL;const sphereRadius : Single ) : Boolean;
14469: Function glRayCastSphereIntersect( const rayStart, rayVector : TVectorGL; const sphereCenter:TVectorGL; const sphereRadius : Single; var i1, i2 : TVectorGL ) : Integer;
14470: Function glSphereVisibleRadius( distance, radius : Single ) : Single;
14471: Function glExtractFrustumFromModelViewProjection( const modelViewProj : TMatrixGL ) : TFrustum;
14472: Function glIsVolumeClipped( const objPos : TVectorGL; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14473: Function glIsVolumeClipped1( const objPos : TAffineVector; const objRadius : Single; const rcci : TRenderContextClippingInfo ) : Boolean;
14474: Function glIsVolumeClipped2(const min,max:TAffineVector;const rcci : TRenderContextClippingInfo) : Bool;
14475: Function glIsVolumeClipped3(const objPos:TAffineVector;const objRadius:Single;const Frustum:TFrustum):Bool;
14476: Function glMakeParallelProjectionMatrix( const plane : THmgPlane; const dir : TVectorGL ) : TMatrixGL;

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14477: Function glMakeShadowMatrix( const planePoint, planeNormal, lightPos : TVectorGL ) : TMatrixGL
14478: Function glMakeReflectionMatrix( const planePoint, planeNormal : TAffineVector ) : TMatrixGL
14479: Function glPackRotationMatrix( const mat : TMatrixGL ) : TPackedRotationMatrix
14480: Function glUnPackRotationMatrix( const packedMatrix : TPackedRotationMatrix ) : TMatrixGL
14481: 'cPI','Single').setExtended( 3.141592654 );
14482: 'cP1div180','Single').setExtended( 0.017453292 );
14483: 'c180divPI','Single').setExtended( 57.29577951 );
14484: 'c2PI','Single').setExtended( 6.283185307 );
14485: 'cP1div2','Single').setExtended( 1.570796326 );
14486: 'cP1div4','Single').setExtended( 0.785398163 );
14487: 'c3P1div4','Single').setExtended( 2.35619449 );
14488: 'cInv2PI','Single').setExtended( 1 / 6.283185307 );
14489: 'cInv360','Single').setExtended( 1 / 360 );
14490: 'c180','Single').setExtended( 180 );
14491: 'c360','Single').setExtended( 360 );
14492: 'cOneHalf','Single').setExtended( 0.5 );
14493: 'cLn10','Single').setExtended( 2.302585093 );
14494: {'MinSingle','Extended').setExtended( 1.5e-45 );
14495: 'MaxSingle','Extended').setExtended( 3.4e+38 );
14496: 'MinDouble','Extended').setExtended( 5.0e-324 );
14497: 'MaxDouble','Extended').setExtended( 1.7e+308 );
14498: 'MinExtended','Extended').setExtended( 3.4e-4932 );
14499: 'MaxExtended','Extended').setExtended( 1.1e+4932 );
14500: 'MinComp','Extended').setExtended( - 9.223372036854775807e+18 );
14501: 'MaxComp','Extended').setExtended( 9.223372036854775807e+18 );}
14502: end;
14503:
14504: procedure SIRegister_GLVectorFileObjects(CL: TPPSPascalCompiler);
14505: begin
14506:   AddClassN(FindClass('TOBJECT'), 'TMeshObjectList'
14507:   (FindClass('TOBJECT'), 'TFaceGroups'
14508: TMeshAutoCentering', '( macCenterX, macCenterY, macCenterZ, macUseBarycenter )
14509: TMeshAutoCenterings', 'set of TMeshAutoCentering
14510: TMeshObjectMode', '( momTriangles, momTriangleStrip, momFaceGroups )
14511: SIRegister_TBaseMeshObject(CL);
14512: (FindClass('TOBJECT'), 'TSkeletonFrameList
14513: TSkeletonFrameTransform', '( sftRotation, sftQuaternion )
14514: SIRegister_TSkeletonFrame(CL);
14515: SIRegister_TSkeletonFrameList(CL);
14516: (FindClass('TOBJECT'), 'TSkeleton
14517: (FindClass('TOBJECT'), 'TSkeletonBone
14518: SIRegister_TSkeletonBoneList(CL);
14519: SIRegister_TSkeletonRootBoneList(CL);
14520: SIRegister_TSkeletonBone(CL);
14521: (FindClass('TOBJECT'), 'TSkeletonColliderList
14522: SIRegister_TSkeletonCollider(CL);
14523: SIRegister_TSkeletonColliderList(CL);
14524: (FindClass('TOBJECT'), 'TGLBaseMesh
14525: TBlerdedLerpInfo', 'record frameIndex1 : Integer; frameIndex2 : '
14526:   +'Integer; lerpFactor : Single; weight : Single; externalPositions : TAffine'
14527:   +'VectorList; externalRotations : TAffineVectorList; externalQuaternions : T'
14528:   +'QuaternionList; end
14529: SIRegister_TSkeleton(CL);
14530: TMeshObjectRenderingOption', '( moroGroupByMaterial )
14531: TMeshObjectRenderingOptions', 'set of TMeshObjectRenderingOption
14532: SIRegister_TMshObject(CL);
14533: SIRegister_TMshObjectList(CL);
14534: //TMeshObjectListClass', 'class of TMeshObjectList
14535: (FindClass('TOBJECT'), 'TMeshMorphTargetList
14536: SIRegister_TMshMorphTarget(CL);
14537: SIRegister_TMshMorphTargetList(CL);
14538: SIRegister_TMorphableMeshObject(CL);
14539: TVertexBoneWeight', 'record BoneID : Integer; Weight : Single; end
14540: //PVertexBoneWeightArray', '^TVertexBoneWeightArray // will not work
14541: //PVerticesBoneWeights', '^TVerticesBoneWeights // will not work
14542: TVertexBoneWeightDynArray', 'array of TVertexBoneWeight
14543: SIRegister_TSkeletonMeshObject(CL);
14544: SIRegister_TFaceGroup(CL);
14545: TFaceGroupMode', '( fgmmTriangles, fgmmTriangleStrip, fgmmFl'
14546:   +'atTriangles, fgmmTriangleFan, fgmmQuads )
14547: SIRegister_TFGVertexIndexList(CL);
14548: SIRegister_TFGVertexNormalTexIndexList(CL);
14549: SIRegister_TFGIndexTexCoordList(CL);
14550: SIRegister_TFaceGroups(CL);
14551: TMeshNormalsOrientation', '( mnoDefault, mnoInvert )
14552: SIRegister_TVectorFile(CL);
14553: //TVectorFileClass', 'class of TVectorFile
14554: SIRegister_TGLGLSMVectorFile(CL);
14555: SIRegister_TGLBaseMesh(CL);
14556: SIRegister_TGLFreeForm(CL);
14557: TGLActorOption', '( aoSkeletonNormalizeNormals )
14558: TGLActorOptions', 'set of TGLActorOption
14559: 'cDefaultGLActorOptions', 'LongInt').Value.ts32:= ord(aoSkeletonNormalizeNormals);
14560: (FindClass('TOBJECT'), 'TGLActor
14561: TActorAnimationReference', '( aarMorph, aarSkeleton, aarNone )
14562: SIRegister_TActorAnimation(CL);
14563: TActorAnimationName', 'string
14564: SIRegister_TActorAnimations(CL);
14565: SIRegister_TGLBaseAnimationController(CL);

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14566:  SIRegister_TGLAnimationController(CL);
14567:  TActorFrameInterpolation', '( afpNone, afpLinear )
14568:  TActorAnimationMode', '( aamNone, aamPlayOnce, aamLoop, aamBounce
14569:    +'eForward, aamBounceBackward, aamLoopBackward, aamExternal )
14570:  SIRegister_TGLActor(CL);
14571:  SIRegister_TVectorFileFormat(CL);
14572:  SIRegister_TVectorFileFormatsList(CL);
14573:  (FindClass('TOBJECT')),'EInvalidVectorFile
14574:  Function GetVectorFileFormats : TVectorFileFormatsList
14575:  Function VectorFileFormatsFilter : String
14576:  Function VectorFileFormatsSaveFilter : String
14577:  Function VectorFileFormatExtensionByIndex( index : Integer ) : String
14578:  Procedure RegisterVectorFileFormat( const aExtension, aDescription : String; aClass : TVectorFileClass )
14579:  Procedure UnregisterVectorFileClass( aClass : TVectorFileClass )
14580: end;
14581;
14582: procedure SIRegister_AxCtrls(CL: TPSPascalCompiler);
14583: begin
14584:  'Class_DColorPropPage', 'TGUID '{5CF5D59-5946-11D0-BDEF-00A024D1875C}
14585:  'Class_DFontPropPage', 'TGUID '{5CF5D5B-5946-11D0-BDEF-00A024D1875C}
14586:  'Class_DPicturePropPage', 'TGUID '{5CFF5D5A-5946-11D0-BDEF-00A024D1875C}
14587:  'Class_DStringPropPage', 'TGUID '{F42D677E-754B-11D0-BDFB-00A024D1875C}
14588:  SIRegister_ToleStream(CL);
14589:  (FindClass('TOBJECT')),'TConnectionPoints
14590:  TConnectionKind', '( ckSingle, ckMulti )
14591:  SIRegister_TConnectionPoint(CL);
14592:  SIRegister_TConnectionPoints(CL);
14593:  TDefinePropertyPage', 'Procedure ( const GUID : TGUID)
14594:  (FindClass('TOBJECT')),'TActiveXControlFactory
14595:  SIRegister_TActiveXControl(CL);
14596: //TActiveXControlClass', 'class of TActiveXControl
14597:  SIRegister_TActiveXControlFactory(CL);
14598:  SIRegister_TActiveFormControl(CL);
14599:  SIRegister_TActiveForm(CL);
14600: //TActiveFormClass', 'class of TActiveForm
14601:  SIRegister_TActiveFormFactory(CL);
14602:  (FindClass('TOBJECT')),'TPROPERTYPAGEImpl
14603:  SIRegister_TPropertyPage(CL);
14604: //TPROPERTYPAGECLASS', 'class of TPROPERTYPAGE
14605:  SIRegister_TPropertyPageImpl(CL);
14606:  SIRegister_TActiveXPropertyPage(CL);
14607:  SIRegister_TActiveXPropertyPageFactory(CL);
14608:  SIRegister_TCustomAdapter(CL);
14609:  SIRegister_TAdapterNotifier(CL);
14610:  SIRegister_IFontAccess(CL);
14611:  SIRegister_TFontAdapter(CL);
14612:  SIRegister_TPictureAccess(CL);
14613:  SIRegister_TPictureAdapter(CL);
14614:  SIRegister_ToleGraphic(CL);
14615:  SIRegister_TStringsAdapter(CL);
14616:  SIRegister_TReflectorWindow(CL);
14617:  Procedure EnumDispatchProperties(Dispatch:IDispatch;PropType:GUID;VTCode:Int;PropList:TStrings);
14618:  Procedure GetOleFont( Font : TFont; var OleFont : IFontDisp)
14619:  Procedure SetOleFont( Font : TFont; OleFont : IFontDisp)
14620:  Procedure GetOlePicture( Picture : TPicture; var OlePicture : IPictureDisp)
14621:  Procedure SetOlePicture( Picture : TPicture; OlePicture : IPictureDisp)
14622:  Procedure GetOleStrings( Strings : TStrings; var OleStrings : IStrings)
14623:  Procedure SetOleStrings( Strings : TStrings; OleStrings : IStrings)
14624:  Function ParkingWindow : Hwnd
14625: end;
14626;
14627: procedure SIRegister_synaip(CL: TPSPascalCompiler);
14628: begin
14629: // TIP6Bytes = array [0..15] of Byte;
14630: {binary form of IPv6 adress (for string conversion routines)}
14631: // Tip6Words = array [0..7] of Word;
14632: AddTypes('TIP6Bytes', 'array [0..15] of Byte;');
14633: AddTypes('Tip6Words', 'array [0..7] of Word;');
14634: AddTypeS('TIPAdr', 'record Oct1 : Byte; Oct2 : Byte; Oct3 : Byte; Oct4: Byte; end');
14635: Function synaIsIP( const Value : String) : Boolean';
14636: Function synaIP6( const Value : String) : Boolean';
14637: Function synaPToID( Host : String) : Ansistring';
14638: Function synaStrToIp6( value : String) : TIP6Bytes';
14639: Function synaIP6ToStr( value : TIP6Bytes) : String';
14640: Function synaStrToIp( value : String) : integer';
14641: Function synalpToStr( value : integer) : String';
14642: Function synaReverseIP( Value : AnsiString) : AnsiString';
14643: Function synaReverseIP6( Value : AnsiString) : AnsiString';
14644: Function synaExpandIP6( Value : AnsiString) : AnsiString';
14645: Function xStrToIP( const Value : String) : TIPAdr';
14646: Function xIPToStr( const Adresse : TIPAdr) : String';
14647: Function IPToCardinal( const Adresse : TIPAdr) : Cardinal';
14648: Function CardinalToIP( const Value : Cardinal) : TIPAdr';
14649: end;
14650;
14651: procedure SIRegister_synacode(CL: TPSPascalCompiler);
14652: begin
14653: AddTypeS('TSpecials', 'set of Char');
14654: Const('SpecialChar', 'TSpecials').SetSet( '=( )[]<>;,@/?\"_');

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14655: Const ('URLFullSpecialChar', 'TSpecials').SetSet( ';/?:@=&#+');
14656: Const ('TableBase64'ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz0123456789+/=+);
14657: Const ('TableBase64mod'ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz0123456789+,=+);
14658: Const ('TableXX'('!'#$%&'()**,-./0123456789:+<=?@ABCDEFIGHJKLMNOPQRSTUVWXYZ[\]\]^_'));
14659: Const ('TableXX'(+0123456789ABCDEFIGHJKLMNOPQRSTUVWXYZabcdefghi jklmnopqrstuvwxyz');
14660: Function DecodeTriplet( const Value : AnsiString; Delimiter : Char ) : AnsiString';
14661: Function DecodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14662: Function DecodeURL( const Value : AnsiString ) : AnsiString';
14663: Function EncodeTriplet( const Value : AnsiString; Delimiter : Char; Specials : TSpecials ) : AnsiString';
14664: Function EncodeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14665: Function EncodeSafeQuotedPrintable( const Value : AnsiString ) : AnsiString';
14666: Function EncodeURLElement( const Value : AnsiString ) : AnsiString';
14667: Function EncodeURL( const Value : AnsiString ) : AnsiString';
14668: Function Decode4to3( const Value, Table : AnsiString ) : AnsiString';
14669: Function Decode4to3Ex( const Value, Table : AnsiString ) : AnsiString';
14670: Function Encode3to4( const Value, Table : AnsiString ) : AnsiString';
14671: Function synDecodeBase64( const Value : AnsiString ) : AnsiString';
14672: Function synEncodeBase64( const Value : AnsiString ) : AnsiString';
14673: Function DecodeBase64mod( const Value : AnsiString ) : AnsiString';
14674: Function EncodeBase64mod( const Value : AnsiString ) : AnsiString';
14675: Function DecodeUU( const Value : AnsiString ) : AnsiString';
14676: Function EncodeUU( const Value : AnsiString ) : AnsiString';
14677: Function DecodeXX( const Value : AnsiString ) : AnsiString';
14678: Function DecodeYEnc( const Value : AnsiString ) : AnsiString';
14679: Function UpdateCrc32( Value : Byte; Crc32 : Integer ) : Integer';
14680: Function synCrc32( const Value : AnsiString ) : Integer';
14681: Function UpdateCrc16( Value : Byte; Crc16 : Word ) : Word';
14682: Function Crc16( const Value : AnsiString ) : Word';
14683: Function synMD5( const Value : AnsiString ) : Ansistring';
14684: Function HMAC_MD5( Text, Key : AnsiString ) : AnsiString';
14685: Function MD5LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14686: Function synSHA1( const Value : AnsiString ) : AnsiString';
14687: Function HMAC_SHA1( Text, Key : AnsiString ) : AnsiString';
14688: Function SHA1LongHash( const Value : AnsiString; Len : integer ) : AnsiString';
14689: Function synMD4( const Value : AnsiString ) : AnsiString';
14690: end;
14691:
14692: procedure SIRegister_synamchar(CL: TPSPascalCompiler);
14693: begin
14694:   AddTypeS('TMimeChar', '( ISO_8859_1, ISO_8859_2, ISO_8859_3, ISO_8859_4, I'
14695:             +'SO_8859_5, ISO_8859_6, ISO_8859_7, ISO_8859_8, ISO_8859_9, ISO_8859_10, IS'
14696:             +'O_8859_13, ISO_8859_14, ISO_8859_15, CP1250, CP1251, CP1252, CP1253, CP125'
14697:             +'4, CP1255, CP1256, CP1257, CP1258, KOI8_R, CP895, CP852, UCS_2, UCS_4, UTF'
14698:             +'_8, UTF_7, UTF_7mod, UCS_2LE, UCS_4LE, UTF_16, UTF_16LE, UTF_32, UTF_32LE, '
14699:             +'C99, JAVA, ISO_8859_16, KOI8_U, KOI8_RU, CP862, CP866, MAC, MACCE, MACICE'
14700:             +', MACCRO, MACRO, MACCYR, MACUK, MACTU, MACHEB, MACAR, MACTH, ROMAN8'
14701:             +', NEXTSTEP, ARMASCII, GEORGIAN_PS, GEORGIAN_CS, KOI8_T, MULELAO, CP1133, T'
14702:             +'IS620, CP874, VISCII, TCVN, ISO_IR_14, JIS_X0201, JIS_X0208, JIS_X0212, GB'
14703:             +'1988_80, GB2312_80, ISO_IR_165, ISO_IR_149, EUC_JP, SHIFT_JIS, CP932, ISO_'
14704:             +'2022_JP, ISO_2022_JP1, ISO_2022_JP2, GB2312, CP936, GB18030, ISO_2022_CN, '
14705:             +'ISO_2022_CNE, HZ, EUC_TW, BIG5, CP950, BIG5_HKSCS, EUC_KR, CP949, CP1361, '
14706:             +'ISO_2022_KR, CP737, CP775, CP853, CP855, CP857, CP858, CP860, CP861, CP863'
14707:             +', CP864, CP865, CP869, CP1125 )');
14708:   AddTypeS('TMimeSetChar', 'set of TMimeChar');
14709:   Function CharsetConversion(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar):AnsiString;
14710:   Function CharsetConversionEx(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeChar; const
14711:     TransformTable : array of Word) : AnsiString';
14712:   Function CharsetConversionTrans( Value : AnsiString; CharFrom : TMimeChar; CharTo : TMimeChar; const
14713:     TransformTable : array of Word; Translit : Boolean) : AnsiString';
14714:   Function GetCurCP : TMimeChar';
14715:   Function GetCuroemcp : TMimeChar';
14716:   Function GetCPFromID( Value : AnsiString) : TMimeChar';
14717:   Function GetIDFromCP( Value : TMimeChar) : AnsiString';
14718:   Function NeedCharsetConversion( const Value:AnsiString) : Boolean';
14719:   Function IdealCharsetCoding(const Value:AnsiString;CharFrom:TMimeChar;CharTo:TMimeSetChar):TMimeChar;
14720:   Function GetBOM( Value : TMimeChar) : AnsiString';
14721:   Function StringToWide( const Value : AnsiString) : WideString';
14722:   Function WideToString( const Value : WideString) : AnsiString';
14723: end;
14724:
14725: procedure SIRegister_synamisc(CL: TPSPascalCompiler);
14726: begin
14727:   AddTypeS('TProxySetting', 'record Host : string; Port : string; Bypass : string; end');
14728:   Procedure WakeOnLan( MAC, IP : string));
14729:   Function GetDNS : string';
14730:   Function GetIEProxy( protocol : string) : TProxySetting';
14731:   Function GetLocalIPs : string';
14732:
14733: procedure SIRegister_synaser(CL: TPSPascalCompiler);
14734: begin
14735:   AddConstantN('synCR', 'Char #$0d');
14736:   Const ('synLF', 'Char #$0a');
14737:   Const ('cSerialChunk', 'LongInt'( 8192));
14738:   Const ('LockfileDirectory', 'String '/var/lock');
14739:   Const ('PortIsClosed', 'LongInt'(- 1);
14740:   Const ('ErrAlreadyOwned', 'LongInt'( 9991);
14741:   Const ('ErrAlreadyInUse', 'LongInt'( 9992);

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14742: Const('ErrWrongParameter','LongInt'( 9993);
14743: Const('ErrPortNotOpen','LongInt'( 9994);
14744: Const('ErrNoDeviceAnswer','LongInt'( 9995);
14745: Const('ErrMaxBuffer','LongInt'( 9996);
14746: Const('ErrTimeout','LongInt'( 9997);
14747: Const('ErrNotRead','LongInt'( 9998);
14748: Const('ErrFrame','LongInt'( 9999);
14749: Const('ErrOverrun','LongInt'( 10000);
14750: Const('ErrRxOver','LongInt'( 10001);
14751: Const('ErrRxParity','LongInt'( 10002);
14752: Const('ErrTxFull','LongInt'( 10003);
14753: Const('dcb_Binary','LongWord')( $00000001);
14754: Const('dcb_ParityCheck','LongWord')( $00000002);
14755: Const('dcb_OutxCtsFlow','LongWord')( $00000004);
14756: Const('dcb_OutxDsrFlow','LongWord')( $00000008);
14757: Const('dcb_DtrControlMask','LongWord')( $00000030);
14758: Const('dcb_DtrControlDisable','LongWord')( $00000000);
14759: Const('dcb_DtrControlEnable','LongWord')( $00000010);
14760: Const('dcb_DtrControlHandshake','LongWord')( $00000020);
14761: Const('dcb_DsrSensitivity','LongWord')( $00000040);
14762: Const('dcb_TXContinueOnXoff','LongWord')( $00000080);
14763: Const('dcb_OutX','LongWord')( $00000100);
14764: Const('dcb_InX','LongWord')( $00000200);
14765: Const('dcb_ErrorChar','LongWord')( $00000400);
14766: Const('dcb_NullStrip','LongWord')( $00000800);
14767: Const('dcb_RtsControlMask','LongWord')( $00003000);
14768: Const('dcb_RtsControlDisable','LongWord')( $00000000);
14769: Const('dcb_RtsControlEnable','LongWord')( $00001000);
14770: Const('dcb_RtsControlHandshake','LongWord')( $00002000);
14771: Const('dcb_RtsControlToggle','LongWord')( $00003000);
14772: Const('dcb_AbortOnError','LongWord')( $00004000);
14773: Const('dcb_Reserveds','LongWord')( $FFFF8000);
14774: Const('synSB1','LongInt'( 0);
14775: Const('SBandHalf','LongInt'( 1);
14776: Const('synSB2','LongInt'( 2);
14777: Const('synINVALID_HANDLE_VALUE','LongInt'( THandle( - 1));
14778: Const('CS7fix','LongWord')( $0000020);
14779: AddTypeS('synTDCB', 'record DCBlength : DWORD; BaudRate : DWORD; Flags : Long';
14780:   + 'int wReserved : Word; XonLin : Word; XoffLim : Word; ByteSize : Byte; Par';
14781:   + 'Byte: StopBits : Byte; XonChar : CHAR; XoffChar : CHAR; ErrorChar : ';
14782:   + 'CHAR; EofChar : CHAR; EvtChar : CHAR; wReserved1 : Word; end');
14783: //AddTypeS('PDCB', '^TDCB // will not work');
14784: //Const('MaxRates','LongInt'( 18);
14785: //Const('MaxRates','LongInt'( 30);
14786: //Const('MaxRates','LongInt'( 19);
14787: Const('O_SYNC','LongWord')( $0080);
14788: Const('synOK','LongInt'( 0);
14789: Const('synErr','LongInt'( integer( - 1));
14790: AddTypeS('THookSerialReason', '( HR_SerialClose, HR_Connect, HR_CanRead, HR_CanWrite, HR_ReadCount,
14791:   HR_WriteCount, HR_Wait )');
14792: Type('THookSerialStatus',Procedure(Sender: TObject; Reason:THookSerialReason; const Value:string));
14793: SIRegister_ESynaSerError(CL);
14794: SIRegister_TBlockSerial(CL);
14795: Function GetSerialPortNames : string;
14796: end;
14797: procedure SIRegister_synaicnv(CL: TPPSPascalCompiler);
14798: begin
14799: Const('DLLIconvName','String 'libiconv.so');
14800: Const('DLLIconvName','String 'iconv.dll');
14801: AddTypeS('size_t', 'Cardinal');
14802: AddTypeS('iconv_t', 'Integer');
14803: //AddTypeS('iconv_t', 'Pointer');
14804: AddTypeS('argptr', 'iconv_t');
14805: Function SynalconvOpen( const tocode, fromcode : Ansistring) : iconv_t';
14806: Function SynalconvOpenTranslit( const tocode, fromcode : Ansistring) : iconv_t';
14807: Function SynalconvOpenIgnore( const tocode, fromcode : Ansistring) : iconv_t';
14808: Function Synalconv( cd : iconv_t; inbuf : AnsiString; var outbuf : AnsiString) : integer';
14809: Function SynalconvClose( var cd : iconv_t) : integer';
14810: Function SynalconvCtl( cd : iconv_t; request : integer; argument : argptr) : integer';
14811: Function IsIconvloaded : Boolean';
14812: Function InitIconvInterface : Boolean';
14813: Function DestroyIconvInterface : Boolean';
14814: Const('ICONV_TRIVIALP','LongInt'( 0);
14815: Const('ICONV_GET_TRANSLITERATE','LongInt'( 1);
14816: Const('ICONV_SET_TRANSLITERATE','LongInt'( 2);
14817: Const('ICONV_GET_DISCARD_ILSEQ','LongInt'( 3);
14818: Const('ICONV_SET_DISCARD_ILSEQ','LongInt'( 4);
14819: end;
14820:
14821: procedure SIRegister_pingsend(CL: TPPSPascalCompiler);
14822: begin
14823: Const('ICMP_ECHO','LongInt'( 8);
14824: Const('ICMP_ECHOREPLY','LongInt'( 0);
14825: Const('ICMP_UNREACH','LongInt'( 3);
14826: Const('ICMP_TIME_EXCEEDED','LongInt'( 11);
14827: Const('ICMP6_ECHO','LongInt'( 128);
14828: Const('ICMP6_ECHOREPLY','LongInt'( 129);
14829: Const('ICMP6_UNREACH','LongInt'( 1);

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14830: Const('ICMP6_TIME_EXCEEDED','LongInt'( 3);
14831: AddTypeS('TICMPError', '( IE_NoError, IE_Other, IE_TTLExceed, IE_UnreachOt'
14832: +'her, IE_UnreachRoute, IE_UnreachAdmin, IE_UnreachAddr, IE_UnreachPort )');
14833: SIRegister_TPINGSend(CL);
14834: Function PingHost( const Host : string ) : Integer';
14835: Function TraceRouteHost( const Host : string ) : string';
14836: end;
14837:
14838: procedure SIRegister_asnlutil(CL: TPSPascalCompiler);
14839: begin
14840: AddConstantN('synASN1_BOOL','LongWord')( $01);
14841: Const('synASN1_INT','LongWord')( $02);
14842: Const('synASN1_OCTSTR','LongWord')( $04);
14843: Const('synASN1_NULL','LongWord')( $05);
14844: Const('synASN1_OBJID','LongWord')( $06);
14845: Const('synASN1_ENUM','LongWord')( $0a);
14846: Const('synASN1_SEQ','LongWord')( $30);
14847: Const('synASN1_SETOF','LongWord')( $31);
14848: Const('synASN1_IPADDR','LongWord')( $40);
14849: Const('synASN1_COUNTER','LongWord')( $41);
14850: Const('synASN1_GAUGE','LongWord')( $42);
14851: Const('synASN1_TIMETICKS','LongWord')( $43);
14852: Const('synASN1_OPAQUE','LongWord')( $44);
14853: Function synASNEncOIDItem( Value : Integer ) : AnsiString';
14854: Function synASNDecOIDItem( var Start : Integer; const Buffer : AnsiString ) : Integer';
14855: Function synASNEncLen( Len : Integer ) : AnsiString';
14856: Function synASNDecLen( var Start : Integer; const Buffer : AnsiString ) : Integer';
14857: Function synASNEncInt( Value : Integer ) : AnsiString';
14858: Function synASNEncUInt( Value : Integer ) : AnsiString';
14859: Function synASNObject( const Data : AnsiString; ASNType : Integer ) : AnsiString';
14860: Function synASNItem(var Start:Integer;const Buffer:AnsiString;var ValueType:Integer):AnsiString;
14861: Function synMibToId( Mib : String ) : AnsiString';
14862: Function synIdToMib( const Id : AnsiString ) : String';
14863: Function synIntMibToStr( const Value : AnsiString ) : AnsiString';
14864: Function ASNdump( const Value : AnsiString ) : AnsiString';
14865: Function GetMailServers( const DNSHost, Domain : AnsiString; const Servers:TStrings ) : Boolean';
14866: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14867: end;
14868:
14869: procedure SIRegister_ldapsend(CL: TPSPascalCompiler);
14870: begin
14871: Const('cLDAPProtocol','String '389');
14872: Const('LDAP ASN1_BIND_REQUEST','LongWord')( $60);
14873: Const('LDAP ASN1_BIND_RESPONSE','LongWord')( $61);
14874: Const('LDAP ASN1_UNBIND_REQUEST','LongWord')( $42);
14875: Const('LDAP ASN1_SEARCH_REQUEST','LongWord')( $63);
14876: Const('LDAP ASN1_SEARCH_ENTRY','LongWord')( $64);
14877: Const('LDAP ASN1_SEARCH_DONE','LongWord')( $65);
14878: Const('LDAP ASN1_SEARCH_REFERENCE','LongWord')( $73);
14879: Const('LDAP ASN1 MODIFY_REQUEST','LongWord')( $66);
14880: Const('LDAP ASN1 MODIFY_RESPONSE','LongWord')( $67);
14881: Const('LDAP ASN1_ADD_REQUEST','LongWord')( $68);
14882: Const('LDAP ASN1_ADD_RESPONSE','LongWord')( $69);
14883: Const('LDAP ASN1_DEL_REQUEST','LongWord')( $4A);
14884: Const('LDAP ASN1_DEL_RESPONSE','LongWord')( $6B);
14885: Const('LDAP ASN1 MODIFYDN_REQUEST','LongWord')( $6C);
14886: Const('LDAP ASN1 MODIFYDN_RESPONSE','LongWord')( $6D);
14887: Const('LDAP ASN1_COMPARE_REQUEST','LongWord')( $6E);
14888: Const('LDAP ASN1_COMPARE_RESPONSE','LongWord')( $6F);
14889: Const('LDAP ASN1_ABANDON_REQUEST','LongWord')( $70);
14890: Const('LDAP ASN1 EXT_REQUEST','LongWord')( $77);
14891: Const('LDAP ASN1 EXT_RESPONSE','LongWord')( $78);
14892: SIRegister_TLDAPAttribute(CL);
14893: SIRegister_TLDAPAttributeList(CL);
14894: SIRegister_TLDAPResult(CL);
14895: SIRegister_TLDAPResultList(CL);
14896: AddTypes('TLDAPModifyOp', '( MO_Add, MO_Delete, MO_Replace )');
14897: AddTypeS('TLDAPSearchScope', '( SS_BaseObject, SS_SingleLevel, SS_WholeSubtree )');
14898: AddTypeS('TLDAPSearchAliases', '( SA_NeverDeref, SA_InSearching, SA_FindingBaseObj, SA_Always )');
14899: SIRegister_TLDAPSnd(CL);
14900: Function LDAPResultDump( const Value : TLDAPResultList ) : AnsiString';
14901: end;
14902:
14903:
14904: procedure SIRegister_slogsend(CL: TPSPascalCompiler);
14905: begin
14906: Const('cSysLogProtocol','String '514');
14907: Const('FCL_Kernel','LongInt'( 0));
14908: Const('FCL_UserLevel','LongInt'( 1));
14909: Const('FCL_MailSystem','LongInt'( 2));
14910: Const('FCL_System','LongInt'( 3));
14911: Const('FCL_Security','LongInt'( 4));
14912: Const('FCL_Syslogd','LongInt'( 5));
14913: Const('FCL_Printer','LongInt'( 6));
14914: Const('FCL_News','LongInt'( 7));
14915: Const('FCL_UUCP','LongInt'( 8));
14916: Const('FCL_Clock','LongInt'( 9));
14917: Const('FCL_Authorization','LongInt'( 10));
14918: Const('FCL_FTP','LongInt'( 11));

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

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15003:
15004: procedure SIRегистer_snmpsend(CL: TPSPascalCompiler);
15005: begin
15006:   Const('cSnpProtocol','String '161');
15007:   Const('cSnpTrapProtocol','String '162');
15008:   Const('SNMP_V1','LongInt'( 0);
15009:   Const('SNMP_V2C','LongInt'( 1);
15010:   Const('SNMP_V3','LongInt'( 3);
15011:   Const('PDUGetRequest','LongWord')( $A0);
15012:   Const('PDUGetNextRequest','LongWord')( $A1);
15013:   Const('PDUGetResponse','LongWord')( $A2);
15014:   Const('PDUSetRequest','LongWord')( $A3);
15015:   Const('PDUTrap','LongWord')( $A4);
15016:   Const('PDUGetBulkRequest','LongWord')( $A5);
15017:   Const('PDUInformRequest','LongWord')( $A6);
15018:   Const('PDUTrapV2','LongWord')( $A7);
15019:   Const('PDUReport','LongWord')( $A8);
15020:   Const('ENoError',LongInt 0;
15021:   Const('ETooBig','LongInt')( 1);
15022:   Const('ENoSuchName','LongInt'( 2);
15023:   Const('EBadValue','LongInt'( 3);
15024:   Const('EReadOnly','LongInt'( 4);
15025:   Const('EGenErr','LongInt'( 5);
15026:   Const('ENoAccess','LongInt'( 6);
15027:   Const('EWrongType','LongInt'( 7);
15028:   Const('EWrongLength','LongInt'( 8);
15029:   Const('EWrongEncoding','LongInt'( 9);
15030:   Const('EWrongValue','LongInt'( 10);
15031:   Const('ENoCreation','LongInt'( 11);
15032:   Const('EInconsistentValue','LongInt'( 12);
15033:   Const('EResourceUnavailable','LongInt'( 13);
15034:   Const('ECommitFailed','LongInt'( 14);
15035:   Const('EUndoFailed','LongInt'( 15);
15036:   Const('EAuthorizationError','LongInt'( 16);
15037:   Const('ENotWritable','LongInt'( 17);
15038:   Const('EInconsistentName','LongInt'( 18);
15039:   AddTypeS('TV3Flags', '( NoAuthNoPriv, AuthNoPriv, AuthPriv )');
15040:   AddTypeS('TV3Auth', '( AuthMD5, AuthSHA1 )');
15041:   AddTypeS('TV3Priv', '( PrivDES, Priv3DES, PrivAES )');
15042:   SIRегистer_TSNNPMib(CL);
15043:   AddTypeS('TV3Sync', 'record EngineID : AnsiString; EngineBoots : integer;
15044:             +EngineTime : integer; EngineStamp : Cardinal; end');
15045:   SIRегистer_TSNNMPRec(CL);
15046:   SIRегистer_TSNNPMSend(CL);
15047:   Function SNMPGet( const OID, Community, SNMPHost : AnsiString; var Value : AnsiString ) : Boolean';
15048:   Function SNMPSet( const OID, Community, SNMPHost, Value : AnsiString; ValueType : Integer ) : Boolean';
15049:   Function SNMPGetNext(var OID:AnsiString;const Community,SNMPHost:AnsiString;var Value:AnsiString):Boolean;
15050:   Function SNMPGetTable(const BaseOID, Community, SNMPHost : AnsiString; const Value : TStrings) : Boolean;
15051:   Function SNMPGetTableElement(const BaseOID,RowID,Colid,Community,SNMPHost:AnsiStr;var Value:AnsiStr):Bool;
15052:   Function SendTrap(const Dest,Source, Enterprise, Community : AnsiString; Generic, Specific, Seconds : Integer; const MIBName, MIBValue : AnsiString; MIBtype : Integer) : Integer';
15053:   Function RecvTrap(var Dest,Source,Enterprise,Community: AnsiString; var Generic, Specific, Seconds : Integer; const MIBName, MIBValue : TStringList) : Integer';
15054: end;
15055:
15056: procedure SIRегистer_NetWork(CL: TPSPascalCompiler);
15057: begin
15058:   Function GetDomainName2: AnsiString';
15059:   Function GetDomainController( Domain : AnsiString ) : AnsiString';
15060:   Function GetDomainUsers( Controller : AnsiString ) : AnsiString';
15061:   Function GetDomainGroups( Controller : AnsiString ) : AnsiString';
15062:   Function GetDateTime( Controller : AnsiString ) : TDateTime';
15063:   Function GetFullName2( Controller, UserID : AnsiString ) : AnsiString';
15064: end;
15065:
15066: procedure SIRегистer_wwSystem(CL: TPSPascalCompiler);
15067: begin
15068:   AddTypeS('TwwDateOrder', '( doMDY, doDMY, doYMD )');
15069:   TwwDateTimeSelection', '(wwdsDay,wwdsMonth,wwdsYear,wwdsHour,wwdsMinute,wwdsSecond,wwdsAMPM)';
15070:   Function wwStrToDate( const S : string ) : boolean';
15071:   Function wwStrToTime( const S : string ) : boolean';
15072:   Function wwStrToDateTime( const S : string ) : boolean';
15073:   Function wwStrToTimeVal( const S : string ) : TDateTime';
15074:   Function wwStrToDateVal( const S : string ) : TDateTime';
15075:   Function wwStrToDateTimeVal( const S : string ) : TDateTime';
15076:   Function wwStrToInt( const S : string ) : boolean';
15077:   Function wwStrToFloat( const S : string ) : boolean';
15078:   Function wwGetDateOrder( const DateFormat : string ) : TwwDateOrder';
15079:   Function wwNextDay( Year, Month, Day : Word ) : integer';
15080:   Function wwPriorDay( Year, Month, Day : Word ) : integer';
15081:   Function wwDoEncodeDate( Year, Month, Day : Word; var Date : TDateTime ) : Boolean';
15082:   Function wwDoEncodeTime( Hour, Min, Sec, MSec : Word; var Time : TDateTime ) : Boolean';
15083:   Function wwGetDateTimeCursorPosition(SelStart:int;Text:string;TimeOnly:Bool):TwwDateTimeSelection';
15084:   Function wwGetTimeCursorPosition( SelStart : integer; Text : string ) : TwwDateTimeSelection';
15085:   Function wwScanDate( const S : string; var Date : TDateTime ) : Boolean';
15086:   Function wwScanDateEpoch( const S : string; var Date : TDateTime; Epoch : integer ) : Boolean';
15087:   Procedure wwSetDateTimeCursorPosition(dateCursor:TwwDateTimeSelection;edit:TCustomEdit;TimeOnly:Bool;
15088:   Function wwStrToFloat2( const S : string; var FloatValue : Extended; DisplayFormat: string): boolean';
15089: end;

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15090:
15091: unit uPSI_Themes;
15092: Function ThemeServices : TThemeServices');
15093: Function ThemeControl( AControl : TControl ) : Boolean');
15094: Function UnthemedDesigner( AControl : TControl ) : Boolean');
15095: procedure SIRegister_UDDIHelper(CL: TPSPascalCompiler);
15096: begin
15097:   Function GetBindingkeyAccessPoint(const Operator : String; const key : String) : String');
15098: end;
15099: Unit uPSC_menus;
15100: Function StripHotkey( const Text : string) : string');
15101: Function GetHotkey( const Text : string) : string');
15102: Function AnsiSameCaption( const Text1, Text2 : string) : Boolean');
15103: Function IsAltGRPressed : boolean');
15104:
15105: procedure SIRegister_IdIMAP4Server(CL: TPSPascalCompiler);
15106: begin
15107:   TCommandEvent', 'Procedure(Thread:TIdPeerThread; const Tag,CmdStr:String;var Handled:Boolean);
15108:   SIRegister_TIdIMAP4Server(CL);
15109: end;
15110:
15111: procedure SIRegister_VariantSymbolTable(CL: TPSPascalCompiler);
15112: begin
15113:   'HASH_SIZE', 'LongInt'( 256);
15114:   CL.FindClass('TOBJECT'), 'EVariantSymbolTable');
15115:   CL.AddTypeS('TSymbolType', '( stInteger, stFloat, stDate, stString )');
15116:   //CL.AddTypeS('PSymbol', '^TSymbol // will not work');
15117:   CL.AddTypeS('TSymbol', 'record Name : String; BlockLevel : integer; HashValue'
15118:     + ': Integer; Value : Variant; end');
15119:   //CL.AddTypeS('PSymbolArray', '^TSymbolArray // will not work');
15120:   SIRegister_TVariantSymbolTable(CL);
15121: end;
15122:
15123: procedure SIRegister_udf_glob(CL: TPSPascalCompiler);
15124: begin
15125:   SIRegister_TThreadLocalVariables(CL);
15126:   Function MakeResultString( Source, OptionalDest : PChar; Len : DWORD) : PChar');
15127:   //Function MakeResultQuad( Source, OptionalDest : PISC_QUAD) : PISC_QUAD';
15128:   Function ThreadLocals : TThreadLocalVariables');
15129:   Procedure WriteDebug( sz : String)');
15130:   CL.AddConstantN('UDF_SUCCESS','LongInt'( 0);
15131:   'UDF_FAILURE','LongInt'( 1);
15132:   'cSignificantlyLarger','LongInt'( 1024 * 4);
15133:   CL.AddTypeS('mTByteArray', 'array of byte;');
15134:   function ChangeOEPFromFile(bFile:mTByteArray):Boolean;
15135:   function ChangeOEPFromFile(sFile:string; sDestFile:string):Boolean;
15136:   procedure CopyEXIF(const FileNameEXIFSource, FileNameEXIFTarget: string);
15137:   function IsNetworkConnected: Boolean;
15138:   function IsInternetConnected: Boolean;
15139:   function IsCOMConnected: Boolean;
15140:   function IsNetworkOn: Boolean;
15141:   function IsInternetOn: Boolean;
15142:   function IsCOMON: Boolean;
15143:   Function SetTimer(hWnd : HWND; nIDEEvent, uElapse: UINT; lpTimerFunc: TFNTimerProc):UINT;
15144:   Function KillTimer( hWnd : HWND; uIDEEvent : UINT) : BOOL';
15145:   Function wIsWindowUnicode( hWnd : HWND) : BOOL');
15146:   Function wEnableWindow( hWnd : HWND; bEnable : BOOL) : BOOL');
15147:   Function wIsWindowEnabled( hWnd : HWND) : BOOL');
15148:   Function GetMenu( hWnd : HWND) : HMENU');
15149:   Function SetMenu( hWnd : HWND; hMenu : HMENU) : BOOL');
15150: end;
15151:
15152: procedure SIRegister_SockTransport(CL: TPSPascalCompiler);
15153: begin
15154:   SIRegister_IDataBlock(CL);
15155:   SIRegister_ISendDataBlock(CL);
15156:   SIRegister_ITransport(CL);
15157:   SIRegister_TDataBlock(CL);
15158:   //CL.AddTypeS('PIntArray', '^TIntArray // will not work');
15159:   //CL.AddTypeS('PVariantArray', '^TVariantArray // will not work');
15160:   CL.AddTypeS('TVarFlag', '( vfByRef, vfVariant )');
15161:   CL.AddTypeS('TVarFlags', 'set of TVarFlag');
15162:   SIRegister_TCustomDataBlockInterpreter(CL);
15163:   SIRegister_TSendDataBlock(CL);
15164:   'CallSig','LongWord')( $D800);
15165:   'ResultSig','LongWord')( $D400);
15166:   'asMask','LongWord')( $00FF);
15167:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EInterpreterError');
15168:   CL.AddClassN(CL.FindClass('TOBJECT'), 'ESocketConnectionError');
15169:   Procedure CheckSignature( Sig : Integer)');
15170: end;
15171:
15172: procedure SIRegister_WinInet(CL: TPSPascalCompiler);
15173: begin
15174:   //CL.AddTypeS('HINTERNET', '__Pointer');
15175:   CL.AddTypeS('HINTERNET1', 'THANDLE');
15176:   CL.AddTypeS('HINTERNET', 'Integer');
15177:   CL.AddTypeS('HINTERNET2', '__Pointer');
15178:   //CL.AddTypeS('PHINTERNET', '^HINTERNET // will not work');

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15179: //CL.AddTypeS('LPHINTERNET', 'PHINTERNET');
15180: CL.AddTypeS('INTERNET_PORT', 'Word');
15181: //CL.AddTypeS('PINTERNET_PORT', '^INTERNET_PORT // will not work');
15182: //CL.AddTypeS('LPINTERNET_PORT', 'PININTERNET_PORT');
15183: Function InternetTimeFromSystemTime(const pst:TSystemTime;dwRFC:DWORD;lpszTime:LPSTR;cbTime:DWORD):BOOL;
15184: 'INTERNET_RFC1123_FORMAT','LongInt'( 0);
15185: 'INTERNET_RFC1123_BUFSIZE','LongInt'( 30);
15186: Function InternetCrackUrl(lpszUrl:PChar; dwUrlLength,dwFlags:DWORD; var lpUrlComponents:TURLComponents):BOOL;
15187: Function InternetCreateUrl(var lpUrlComponents:TURLComponents;dwFlags:DWORD;lpszUrl:PChar;var dwUrlLength:DWORD):BOOL;
15188: Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15189: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15190: Function InternetOpenUrl(hInet:HINTERNET;lpszUrl:PChar;lpszHeaders:PChar;dwHeadLength:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15191: Function InternetOpen(lpszAgent:PChar;dwAccessType:DWORD;lpszProxy;lpszProxBypass:PChar;dwFlags:DWORD):HINTERNET;
15192: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlags,dwContext:DWORD):BOOL;
15193: Function InternetUnlockRequestFile( hLockRequestInfo : THANDLE ) : BOOL';
15194: Function InternetDial(hwndParent:HWND;lpszConnect:Pchar;dwFlags:DWORD;lpdwConnect:DWORD;dwReserved:DWORD):DWORD;
15195: Function InternetHangUp(dwConnection : DWORD; dwReserved : DWORD) : DWORD';
15196: Function InternetGoOnline( lpszURL : pchar; hwndParent : HWND; dwFlags : DWORD ) : BOOL';
15197: Function InternetAutodial( dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15198: Function InternetAutodialHangup( dwReserved : DWORD ) : BOOL';
15199: Function InternetGetConnectedState( lpdwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15200: Function InternetCanonicalizeUrl(lpszUrl:PChar;lpszBuffer:PChar; var lpdwBufferLength:DWORD;dwFlags:DWORD):BOOL;
15201: Function InternetCombineUrl( lpszBaseUrl, lpszRelativeUrl : PChar; lpszBuffer : PChar; var lpdwBufferLength : DWORD; dwFlags:DWORD):BOOL;
15202: Function InternetCloseHandle( hInet : HINTERNET ) : BOOL';
15203: Function InternetConnect(hInet:HINTERNET;lpszServerName:PChar;nServerPort:INTERNET_PORT;lpszUsername:PChar;lpszPassword:PChar;dwService:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTERNET;
15204: Function InternetQueryDataAvailable(hFile:HINTERNET;var lpdwNumbOfBytesAvail:DWORD;dwFlgs,dwContext:DWORD):BOOL;
15205: Function FtpFindFirstFile( hConnect : HINTERNET; lpszSearchFile : PChar; var lpFindFileData : TWin32FindData; dwFlags : DWORD; dwContext : DWORD ) : HINTERNET';
15206: Function WFTpGetFile( hConnect : HINTERNET; lpszRemoteFile : PChar; lpszNewFile : PChar; fFailIfExists : BOOL; dwFlagsAndAttributes : DWORD; dwFlags : DWORD; dwContext : DWORD ) : BOOL';
15207: Function WFTpPutFile( hConct:HINTERNET;lpszLocFile:PChar;lpszNewRemFile:PChar;dwFlags:DWORD;dwCotx:DWORD):BOOL;
15208: Function FtpDeleteFile( hConnect : HINTERNET; lpszFileName : PChar ) : BOOL';
15209: Function FtpRenameFile(hConnect:HINTERNET;lpszExisting:PChar;lpszNew:PChar):BOOL;
15210: Function FtpOpenFile(hConnect:HINTER; lpszFileName:PChar;dwAccess:DWORD;dwFlags:DWORD;dwContext:DWORD):HINTER;
15211: Function Ftp.CreateDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15212: Function FtpRemoveDirectory( hConnect : HINTERNET; lpszDirectory : PChar ) : BOOL';
15213: Function FtpSetCurrentDirectory(hConnect:HINTERNET; lpszDirectory : PChar ) : BOOL';
15214: Function FtpGetCurrentDirectory(hConnect:HINTER;lpszCurrentDir:PChar;var lpdwCurrentDir:DWORD):BOOL;
15215: Function FtpCommand(hConnect:HINTER;fExpectResponse:BOOL;dwFlags:DWORD;lpszCommd:PChar;dwContxt:DWORD):BOOL;
15216: Function IS_GOPHER_FILE( GopherType : DWORD ) : BOOL';
15217: Function IS_GOPHER_DIRECTORY( GopherType : DWORD ) : BOOL';
15218: Function IS_GOPHER_PHONE_SERVER( GopherType : DWORD ) : BOOL';
15219: Function IS_GOPHER_ERROR( GopherType : DWORD ) : BOOL';
15220: Function IS_GOPHER_INDEX_SERVER( GopherType : DWORD ) : BOOL';
15221: Function IS_GOPHER_TELNET_SESSION( GopherType : DWORD ) : BOOL';
15222: Function IS_GOPHER_BACKUP_SERVER( GopherType : DWORD ) : BOOL';
15223: Function IS_GOPHER_TN3270_SESSION( GopherType : DWORD ) : BOOL';
15224: Function IS_GOPHER_ask( GopherType : DWORD ) : BOOL';
15225: Function IS_GOPHER_PLUS( GopherType : DWORD ) : BOOL';
15226: Function IS_GOPHER_TYPE_KNOWN( GopherType : DWORD ) : BOOL';
15227: Function GopherCreateLocator(lpszHost:PChar;nServerPort:INTERNET_PORT;lpszDisplayString:PChar;lpszSelectorString:PChar;dwGopherType:DWORD;lpszLocator:PChar; var lpdwBuferLength:DWORD):BOOL;
15228: Function GopherGetLocatorType( lpszLocator : PChar; var lpdwGopherType : DWORD):BOOL';
15229: Function GopherOpenFile(hConect:HINTERNET;lpszLocat:PChar;lpszView:PChar;dwFlgs:DWORD;dwContext:DWORD):HINTERNET;
15230: Function HttpOpenRequest( hRequest:HINTERNET; lpszVerb : PChar; lpszObjectName : PChar; lpszVersion : PChar; lpszReferer : PChar; lplpszAcceptTypes : PLPSTR; dwFlags : DWORD; dwContext:DWORD):HINTERNET;
15231: Function InternetGetCookie(lpszUrl,lpszCookieName,lpszCookieData:PChar;var lpdwSize:DWORD):BOOL;
15232: Function InternetAttemptConnect( dwReserved : DWORD ) : DWORD';
15233: Function InternetCheckConnection( lpszUrl : PChar; dwFlags : DWORD; dwReserved : DWORD ) : BOOL';
15234: Function InternetErrorDlg(hWnd:HWND;hRequest:HINTERNET;dwError,dwFlags:DWORD;var lppvData:TObject):DWORD;
15235: Function InternetConfirmZoneCrossing( hWnd : HWND; szUrlPrev, szUrlNew : LPSTR; bPost : BOOL ) : DWORD';
15236: Function CreateUrlCacheGroup( dwFlags : DWORD; lpReserved : TObject ) : Int64';
15237: Function DeleteUrlCacheGroup( GroupId : Int64; dwFlags : DWORD; lpReserved : TObject ) : Bool';
15238: Function FindFirstUrlCacheEntry(lpszUrlSearchPattern PChar;var lpFirstCacheEntryInfo:TInternetCacheEntryInfo;var lpdwFirstCacheEntryInfoBufferSize:DWORD):THandle;
15239: Function FindNextUrlCacheEntry(hEnumHandle:THandle;var lpNextCacheEntryInfo:TInternetCacheEntryInfo; var lpdwNextCacheEntryInfoBufferSize : DWORD) : BOOL;
15240: Function FindCloseUrlCache( hEnumHandle : THandle):BOOL;
15241: Function DeleteUrlCacheEntry( lpszUrlName : LPCSTR ):BOOL;

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

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15333: Function DiskFreeBytes( Drv : Char ) : Int64';
15334: Function DiskBytes( Drv : Char ) : Int64';
15335: Function GetFileBytes( Filename : String ) : Int64';
15336: Function GetFilesBytes( Directory, Filter : String ) : Int64';
15337: SE_CREATE_TOKEN_NAME', 'String 'SeCreateTokenPrivilege');
15338: SE_ASSIGNPRIMARYTOKEN_NAME', 'String 'SeAssignPrimaryTokenPrivilege');
15339: SE_LOCK_MEMORY_NAME', 'String 'SeLockMemoryPrivilege');
15340: SE_INCREASE_QUOTA_NAME', 'String 'SeIncreaseQuotaPrivilege');
15341: SE_UNSOLICITED_INPUT_NAME', 'String 'SeUnsolicitedInputPrivilege');
15342: SE_MACHINE_ACCOUNT_NAME', 'String 'SeMachineAccountPrivilege');
15343: SE_TCB_NAME', 'String 'SeTcbPrivilege');
15344: SE_SECURITY_NAME', 'String 'SeSecurityPrivilege');
15345: SE_TAKE_OWNERSHIP_NAME', 'String 'SeTakeOwnershipPrivilege');
15346: SE_LOAD_DRIVER_NAME', 'String 'SeLoadDriverPrivilege');
15347: SE_SYSTEM_PROFILE_NAME', 'String 'SeSystemProfilePrivilege');
15348: SE_SYSTEMTIME_NAME', 'String 'SeSystemtimePrivilege');
15349: SE_PROF_SINGLE_PROCESS_NAME', 'String 'SeProfileSingleProcessPrivilege');
15350: SE_INC_BASE_PRIORITY_NAME', 'String 'SeIncreaseBasePriorityPrivilege');
15351: SE_CREATE_PAGEFILE_NAME', 'String 'SeCreatePagefilePrivilege');
15352: SE_CREATE_PERMANENT_NAME', 'String 'SeCreatePermanentPrivilege');
15353: SE_BACKUP_NAME', 'String 'SeBackupPrivilege');
15354: SE_RESTORE_NAME', 'String 'SeRestorePrivilege');
15355: SE_SHUTDOWN_NAME', 'String 'SeShutdownPrivilege');
15356: SE_DEBUG_NAME', 'String 'SeDebugPrivilege');
15357: SE_AUDIT_NAME', 'String 'SeAuditPrivilege');
15358: SE_SYSTEM_ENVIRONMENT_NAME', 'String 'SeSystemEnvironmentPrivilege');
15359: SE_CHANGE_NOTIFY_NAME', 'String 'SeChangeNotifyPrivilege');
15360: SE_REMOTE_SHUTDOWN_NAME', 'String 'SeRemoteShutdownPrivilege');
15361: SE_UNDOCK_NAME', 'String 'SeUndockPrivilege');
15362: SE_SYNC_AGENT_NAME', 'String 'SeSyncAgentPrivilege');
15363: SE_ENABLE_DELEGATION_NAME', 'String 'SeEnableDelegationPrivilege');
15364: SE_MANAGE_VOLUME_NAME', 'String 'SeManageVolumePrivilege');
15365: end;
15366:
15367:
15368: procedure SIRegister_cyWinUtils(CL: TPSPascalCompiler);
15369: begin
15370:   Type(TWindowsVersion', '( wvUnknown, wvWin31, wvWin95, wvWin98, wvWin'
15371:     + 'Me, wvWinNt3, wvWinNt4, wvWin2000, wvWinXP, wvWinVista, wvWin7, wvWin8, wvWin8_Or_Upper )');
15372:   Function ShellGetExtensionName( FileName : String ) : String';
15373:   Function ShellGetIconIndex( FileName : String ) : Integer';
15374:   Function ShellGetIconHandle( FileName : String ) : HIcon';
15375:   Procedure ShellThreadCopy( App_Handle : THandle; fromfile : string; toFile : string );
15376:   Procedure ShellThreadMove( App_Handle : THandle; fromfile : string; toFile : string );
15377:   Procedure ShellRenameDir( DirFrom, DirTo : string );
15378:   Function cyShellExecute(Operation,FileName,Parameters,Directory:String;ShowCmd:Integer):Cardinal;
15379:   Procedure cyShellExecute1(ExeFilename,Parameters,ApplicationName,ApplicationClass:String;Restore:Boolean);
15380:   Procedure ShellExecuteAsModal( ExeFilename, ApplicationName, Directory : String );
15381:   Procedure ShellExecuteExAsAdmin( hWnd : HWND; Filename : string; Parameters : string );
15382:   Function ShellExecuteEx(aFileName: string; const Parameters:string; const Directory: string; const
WaitCloseCompletion : boolean) : Boolean';
15383:   Procedure RestoreAndSetForegroundWindow( Hnd : Integer );
15384:   Function RemoveDuplicatedPathDelimiter( Str : String ) : String';
15385:   Function cyFileTimeToDate( _FT : TFileTime ) : TDateTime';
15386:   Function GetModificationDate( Filename : String ) : TDateTime';
15387:   Function GetCreationDate( Filename : String ) : TDateTime';
15388:   Function GetLastAccessDate( Filename : String ) : TDateTime';
15389:   Function FileDelete( Filename : String ) : Boolean';
15390:   Function FileIsOpen( Filename : string ) : boolean';
15391:   Procedure FilesDelete( FromDirectory : String; Filter : ShortString );
15392:   Function DirectoryDelete( Directory : String ) : Boolean';
15393:   Function GetPrinters( PrintersList : TStrings ) : Integer';
15394:   Procedure SetDefaultPrinter( PrinterName : String );
15395:   Procedure ShowDefaultPrinterWindowProperties( FormParent_Handle : Integer );
15396:   Function WinToDosPath( WinPathName : String ) : String';
15397:   Function DosToWinPath( DosPathName : String ) : String';
15398:   Function cyGetWindowsVersion : TWindowsVersion';
15399:   Function NTSetPrivilege( sPrivilege : string; bEnabled : Boolean ) : Boolean';
15400:   Procedure WindowsShutDown( Restart : boolean );
15401:   Procedure CreateShortCut(FileSrc,Parametres,FileLnk,Descript,DossierDeTravail,
FileIcon:string;NumIcone:integer);
15402:   Procedure GetWindowsFonts( FontsList : TStrings );
15403:   Function GetAvailableFilename( DesiredFileName : String ) : String';
15404: end;
15405:
15406: procedure SIRegister_cyStrUtils(CL: TPSPascalCompiler);
15407: begin
15408:   Type(TStrLocateOption', '( strloCaseInsensitive, strloPartialKey )');
15409:   Type(TStrLocateOptions', 'set of TStringLocateOption');
15410:   Type(TStringRead', '( srFromLeft, srFromRight )');
15411:   Type(TStringReads', 'set of TStringRead');
15412:   Type(TCaseSensitive', '( csCaseSensitive, csCaseNotSensitive )');
15413:   Type(TWordsOption', '( woOnlyFirstWord, woOnlyFirstCar )');
15414:   Type(TWordsOptions', 'set of TWordsOption');
15415:   Type(TCarType', '( ctAlphabeticUppercase, ctAlphabeticLowercase, ctNumeric, ctOther )');
15416:   Type(TCarTypes', 'set of TCarType');
15417:   //CL.AddTypes('TUnicodeCategories', 'set of TUnicodeCategory');
15418:   CarTypeAlphabetic', 'LongInt'):= ord(ctAlphabeticUppercase) or ord(ctAlphabeticLowercase);
15419:   Function Char_GetType( aChar : Char ) : TCarType';

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15420: Function SubString_Count( Str : String; Separator : Char ) : Integer');
15421: Function SubString_AtPos( Str : String; Separator : Char; SubStringIndex : Word ) : Integer');
15422: Function SubString_Get( Str : String; Separator : Char; SubStringIndex : Word ) : String');
15423: Function SubString_Length( Str : String; Separator : Char; SubStringIndex : Word ) : Integer');
15424: Procedure SubString_Add( var Str : String; Separator : Char; Value : String' );
15425: Procedure SubString_Insert(var Str:String;Separator:Char;SubStringIndex:Word;Value : String' );
15426: Procedure SubString_Edit(var Str:String;Separator:Char;SubStringIndex:Word;NewValue : String' );
15427: Function SubString_Remove(var Str:string; Separator:Char; SubStringIndex : Word) : Boolean';
15428: Function SubString_Locate(Str:string;Separator:Char;SubString:String;Options:TStrLocateOptions):Integer;
15429: Function SubString_Ribbon( Str : string; Separator : Char; Current : Word; MoveBy : Integer; );Integer;
15430: Function SubString_Ribbon1(Str:string;Separator:Char;Current:String; MoveBy:Integer):String';
15431: Function String_Quote( Str : String ) : String');
15432: Function String_GetCar( Str : String; Position : Word; ReturnCarIfNotExists : Char ) : Char');
15433: Function String_ExtractCars(fromStr:String;CarTypes:TCarTypes;IncludeCars,ExcludeCars:String):String;
15434: Function String_GetWord( Str : String; StringRead : TStringRead ) : String');
15435: Function String_GetInteger( Str : String; StringRead : TStringRead ) : String');
15436: Function String_ToInt( Str : String ) : Integer');
15437: Function String_Uppercase( Str : String; Options : TWordsOptions ) : String');
15438: Function String_Lowercase( Str : String; Options : TWordsOptions ) : String');
15439: Function String_Reverse( Str : String ) : String');
15440: Function String_Pos(SubStr:String;Str:String;fromPos:Integer;CaseSensitive:TCaseSensitive)Integer;
15441: Function String_Pos1(SubStr:String;Str:String;StringRead:TStringRead; Occurrence:Word; CaseSensitive : TCaseSensitive):Integer');
15442: Function String_Copy( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15443: Function String_Copy1(Str:String;StringRead:TStringRead;UntilFind:String;_Inclusive:Boolean):String;
15444: Function String_Copy2(Str:String;Between1:String;Between1MustExist:Boolean; Between2:String;
Between2MustExist : Boolean; CaseSensitive : TCaseSensitive ) : String');
15445: Function String_Delete( Str : String; fromIndex : Integer; toIndex : Integer ) : String');
15446: Function String_Delete1( Str : String; delStr : String; CaseSensitive:TCaseSensitive ) : String');
15447: Function String_BoundsCut( Str : String; CutCar : Char; Bounds : TStringReads ) : String');
15448: Function String_BoundsAdd( Str : String; AddCar : Char; ReturnLength : Integer ) : String');
15449: Function String_Add(Str:String;StringRead:TStringRead;aCar:Char;ReturnLength:Integer):String';
15450: Function String_End( Str : String; Cars : Word ) : String');
15451: Function String_Subst(OldStr:String; NewStr:String; Str:String; CaseSensitive : TCaseSensitive;
AlwaysFindFromBeginning : Boolean) : String');
15452: Function String_SubstCar( Str : String; Old, New : Char ) : String');
15453: Function String_Count( Str : String; SubStr : String; CaseSenSitive : TCaseSensitive ) : Integer');
15454: Function String_SameCars(Str1,Str2:String;StopCount_IfDifferent:Bool;CaseSensitive:TCaseSensitive):Integer;
15455: Function String_IsNumbers( Str : String ) : Boolean');
15456: Function SearchPos( SubStr : String; Str : String; MaxErrors : Integer ) : Integer');
15457: Function StringToCsvCell( aStr : String ) : string');
15458: end;
15459:
15460: procedure SIRegister_cyDateUtils(CL: TPSPPascalCompiler);
15461: begin
15462:   Function LongDayName( aDate : TDate ) : String');
15463:   Function LongMonthName( aDate : Tdate ) : String');
15464:   Function ShortYearOf( aDate : TDate ) : byte';
15465:   Function DateToStrYYYYMMDD( aDate : TDate ) : String');
15466:   Function StrYYYYMMDDToDate( aStr : String ) : TDate');
15467:   Function SecondsToMinutes( Seconds : Integer ) : Double');
15468:   Function MinutesToSeconds( Minutes : Double ) : Integer');
15469:   Function MinutesToHours( Minutes : Integer ) : Double');
15470:   Function HoursToMinutes( Hours : Double ) : Integer');
15471:   Function ShortTimeStringToTime( ShortTimeStr : String; const ShortTimeFormat : String ) : TDateTime');
15472:   Procedure cyAddMonths( var aMonth, aYear : Word; Months : Integer' );
15473:   Function MergeDateWithTime( aDate : TDate; aTime : TDateTime ) : TDateTime');
15474:   Function GetMinutesBetween( DateTimel, DateTimet2 : TDateTime ) : Int64';
15475:   Function GetMinutesBetween1(From_ShortTimeStr,To_ShortTimeStr:String;const ShortTimeFormat:String):Int64;
15476:   Function GetSecondsBetween( DateTimel, DateTimet2 : TDateTime ) : Int64';
15477:   Function IntersectPeriods(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime; var
RsltBegin:TDateTime; RsltEnd : TDateTime) : Boolean');
15478:   Function IntersectPeriods1(Period1Begin,Period1End,Period2Begin,Period2End:TDateTime):Boolean;
15479:   Function TryToEncodeDate( Year, Month, Day : Integer; var RsltDate : TDateTime ) : Boolean');
15480: end;
15481:
15482: procedure SIRegister_cyObjUtils(CL: TPSPPascalCompiler);
15483: begin
15484:   Type(TStringsSortType', '( stNone, stStringSensitive, stStringInsensitive, stExtended )');
15485:   Type(TStringsValueKind', '( skStringSensitive, skStringInsensitive, skExtended )');
15486:   Type(TcyLocateOption', '( lCaseInsensitive, lPartialKey )');
15487:   Type(TcyLocateOptions', 'set of TcyLocateOption');
15488:   Function StringsLocate( aList : TStrings; Value : String; Options : TcyLocateOptions ) : Integer');
15489:   Function StringsLocate1( aList : TStrings; Value : String; ValueKind : TStringsValueKind ) : Integer');
15490:   Function StringsAdd(aList:TStrings;Value:String;Unique:Boolean; SortType:TStringsSortType) : Integer';
15491:   Procedure StringsReplace(aList:TStrings;OldStr:String;NewStr:String;ValueKind : TStringsValueKind');
15492:   Procedure StringsSort( aList : TStrings; SortType : TStringsSortType );
15493:   Function TreeNodelocate( ParentNode : TTreenode; Value : String ) : TTreenode');
15494:   Function TreeNodeLocateOnLevel( TreeView : TTreenode; OnLevel : Integer; Value : String ) : TTreenode');
15495:   Function
TreeNodeGetChildFromIndex(TreeView:TTreenode;ParentNode:TTreenode;ChildIndex:Integer):TTreenode';
15496:   Function TreeNodeGetParentOnLevel( ChildNode : TTreenode; ParentLevel : Integer ) : TTreenode');
15497:   Procedure TreeNodeCopy(FromNode:TTreenode;ToNode:TTreenode;const CopyChildren:Boolean;const
CopySubChildren:Bool;
15498:   Procedure RichEditSetStr( aRichEdit : TRichEdit; FormattedString : String' );
15499:   Procedure RichEditStringReplace(aRichEdit:TRichEdit;OldPattern,NewPattern:string;Flags:TReplaceFlags);
15500:   Function GetTopMostControlAtPos( FromControl : TWinControl; aControlPoint : TPoint ) : TControl');
15501:   Procedure cyCenterControl( aControl : TControl' );
15502:   Function GetLastParent( aControl : TControl ) : TWinControl');

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15503: Function GetControlBitmap( aControl : TWinControl ) : TBitmap');
15504: Function GetRichEditBitmap( aRichEdit : TRichEdit ) : TBitmap');
15505: end;
15506:
15507: procedure SIRegister_cyBDE(CL: TPSPascalCompiler);
15508: begin
15509:   Function TablePackTable( Tab : TTable ) : Boolean');
15510:   Function TableRegenIndexes( Tab : TTable ) : Boolean');
15511:   Function TableShowDeletedRecords( Tab : TTable; Show : Boolean ) : Boolean');
15512:   Function TableUndeleteRecord( Tab : TTable ) : Boolean');
15513:   Function TableAddIndex(Tab:TTable;FieldName String;FieldExpression:String;IOpt:TIndexOptions):Bool;
15514:   Function TableDeleteIndex( Tab : TTable; IndexFieldName : String ) : Boolean');
15515:   Function TableEmptyTable( Tab : TTable ) : Boolean');
15516:   Function TableFindKey( aTable : TTable; Value : String ) : Boolean');
15517:   Procedure TableFindNearest( aTable : TTable; Value : String );
15518:   Function
15519:     TableCreate(Owner:TComponent;DataBaseName:ShortString;TableName:String;IndexName:ShortString;ReadOnly :
15520:     Boolean):TTable;
15521:   Function
15522:     TableOpen(Tab:TTable;FileName:String;IndexFieldName:String;RecordIndexValue:Variant;GotoRecordIndexValue:Bool):Bool;
15523:   Function DateToBDESQLODate( aDate : TDate; const DateFormat : String ) : String );
15524: end;
15525:
15526: procedure SIRegister_cyClasses(CL: TPSPascalCompiler);
15527: begin
15528:   SIRegister_TcyRunTimeDesign(CL);
15529:   SIRegister_TcyShadowText(CL);
15530:   SIRegister_TcyBgPicture(CL);
15531:   SIRegister_TcyGradient(CL);
15532:   SIRegister_TcyBevel(CL);
15533:   //CL.AddTypes('TcyBevelClass', 'class of tcyBevel');
15534:   SIRegister_TcyBevels(CL);
15535:   SIRegister_TcyImagelistOptions(CL);
15536:   Procedure cyDrawBgPicture( aCanvas : TCanvas; aRect : TRect; aBgPicture : TcyBgPicture );
15537: end;
15538: procedure SIRegister_cyGraphics(CL: TPSPascalCompiler);
15539: begin
15540:   Procedure cyGradientFillVertical(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrade : byte);
15541:   Procedure cyGradientFillHorizontal(aCanvas:TCanvas;aRect:TRect;fromColor,toColor:TColor;MaxDegrade:byte);
15542:   Procedure cyGradientFillShape( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrade :
15543:     Byte; toRect : TRect; OrientationShape : TDgradOrientationShape );
15544:   Procedure cyGradientFillAngle( aCanvas : TCanvas; aRect : TRect; fromColor, toColor : TColor; MaxDegrade :
15545:     Byte; AngleDegree : Word; const ClipRect : Boolean; const Buffer : TBitmap );
15546:   Procedure DrawRectangleInside( aCanvas : TCanvas; InsideRect : TRect; FrameWidth : Integer );
15547:   Procedure cyFrame( aCanvas : TCanvas; var InsideRect : TRect; Color : TColor; const Width : Integer );
15548:   Procedure cyFrame(Canvas:TCanvas;var Rect:TRect;TopLeftColor,
15549: BottomColor:TColor;Width:Integer;const DrawLeft:Boolean;const DrawTop:Boolean;const DrawRight:Boolean;const
15550: DrawBottom:Boolean;const RoundRect:bool;
15551: Procedure cyDrawButtonFace(Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 : TColor;
15552: aState : TButtonState; Focused, Hot : Boolean );
15553: Procedure cyDrawButton(Canvas:TCanvas; Caption:String;ARect:TRect; GradientColor1,GradientColor2:TColor;
15554: aState : TButtonState; Focused, Hot : Boolean );
15555: Procedure cyDrawSpeedButtonFace( Canvas : TCanvas; var Rect : TRect; GradientColor1, GradientColor2 :
15556: TColor; aState : TButtonState; Focused, Hot : Boolean );
15557: Procedure cyDrawSpeedButton( Canvas : TCanvas; Caption : String; ARect : TRect; GradientColor1,
15558: GradientColor2 : TColor; aState : TButtonState; Focused, Hot : Boolean );
15559: Procedure cyDrawCheckBox( Canvas : TCanvas; IsChecked : Boolean; ARect : TRect; const BgColor : TColor;
15560: const DarkFrameColor : TColor; const LightFrameColor : TColor; const MarkColor : TColor );
15561: Procedure cyDrawSingleLineText( Canvas : TCanvas; Text : String; ARect : TRect; Alignment : TAlignment;
15562: TextLayout : TTextLayout; const IndentX : Integer; const IndentY : Integer );
15563: Function DrawTextFormatFlags(aTextFormat:LongInt):LongInt;
15564: Function DrawTextFormatFlags1( aTextFormat : LongInt; Alignment : TAlignment; Layout : TTextLayout;
15565: WordWrap : Boolean; CaptionRender : TCaptionRender ) : LongInt );
15566: Procedure cyDrawText( CanvasHandle : Cardinal; Text : String; var Rect : TRect; TextFormat : LongInt );
15567: Function cyCreateFontIndirect( fromFont : TFont; Angle : Double ) : TFont );
15568: Function cyCreateFontIndirect1( fromFont : TFont; CaptionOrientation : TCaptionOrientation ) : TFont );
15569: Procedure cyDrawVerticalText( Canvas : TCanvas; Text : String; var Rect : TRect; TextFormat : Longint;
15570: CaptionOrientation : TCaptionOrientation; Alignment : TAlignment; Layout : TTextLayout );
15571: Function DrawLeftTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
15572: Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord );
15573: Function DrawRightTurnPageEffect( Canvas : TCanvas; PageColor : TColor; PageRect : TRect; PercentDone :
15574: Integer; const OnlyCalcFoldLine : Boolean ) : TLineCoord );
15575: Function PictureIsTransparentAtPos( aPicture : TPicture; aPoint : TPoint ):boolean';
15576: Function IconIsTransparentAtPos( aIcon : TIcon; aPoint : TPoint ) : boolean';
15577: Function MetafileIsTransparentAtPos( aMetafile : TMetafile; aPoint : TPoint ) : boolean';
15578: Function PngImageIsTransparentAtPos( aPngImage : TPngImage; aPoint : TPoint ) : boolean';
15579: Procedure DrawCanvas( Destination : TCanvas; DestRect : TRect; Source : TCanvas; SourceRect : TRect );
15580: Procedure DrawCanvas1(Destination:TCanvas;
15581: DestRect:TRect;Src:TCanvas;SrcRect:TRect;TransparentColor:TColor; const aStyle:TBgStyle; const
15582: aPosition:TBgPosition; const IndentX : Integer; const IndentY : Integer;const IntervalX : Integer; const
15583: IntervalY : Integer; const RepeatX:Integer;const RepeatY:Integer );

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

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15650: Const SERVICE_USER_DEFINED_CONTROL', 'LongWord $0100);
15651: Const SERVICE_KERNEL_DRIVER', 'LongWord $00000001);
15652: Const SERVICE_FILE_SYSTEM_DRIVER', 'LongWord $00000002);
15653: Const SERVICE_ADAPTER', 'LongWord $00000004);
15654: Const SERVICE_RECOGNIZER_DRIVER', 'LongWord $00000008);
15655: Const SERVICE_WIN32_OWN_PROCESS', 'LongWord $00000010);
15656: Const SERVICE_WIN32_SHARE_PROCESS', 'LongWord $00000020);
15657: Const SERVICE_INTERACTIVE_PROCESS', 'LongWord $00000100);
15658: Const SERVICE_BOOT_START', 'LongWord $00000000);
15659: Const SERVICE_SYSTEM_START', 'LongWord $00000001);
15660: Const SERVICE_AUTO_START', 'LongWord $00000002);
15661: Const SERVICE_DEMAND_START', 'LongWord $00000003);
15662: Const SERVICE_DISABLED', 'LongWord $00000004);
15663: Const SERVICE_ERROR_IGNORE', 'LongWord $00000000);
15664: Const SERVICE_ERROR_NORMAL', 'LongWord $00000001);
15665: Const SERVICE_ERROR_SEVERE', 'LongWord $00000002);
15666: Const SERVICE_ERROR_CRITICAL', 'LongWord $00000003);
15667: CL.AddTypeS('SC_HANDLE', 'THandle');
15668: //CL.AddTypeS('LPSC_HANDLE', '^SC_HANDLE // will not work');
15669: CL.AddTypeS('SERVICE_STATUS_HANDLE', 'DWORD');
15670: Const _SERVICE_STATUS', 'record dwServiceType : DWORD; dwCurrentState '
15671: +' : DWORD; dwControlsAccepted : DWORD; dwWin32ExitCode : DWORD; dwServiceSpe'
15672: +'cificExitCode : DWORD; dwCheckPoint : DWORD; dwWaitHint : DWORD; end');
15673: Const SERVICE_STATUS', '_SERVICE_STATUS');
15674: Const TServiceStatus', '_SERVICE_STATUS');
15675: CL.AddTypeS('_ENUM_SERVICE_STATUSA', 'record lpServiceName : PChar; lpDis'
15676: +'playName : PChar; ServiceStatus : TServiceStatus; end');
15677: ENUM_SERVICE_STATUSA', '_ENUM_SERVICE_STATUSA');
15678: _ENUM_SERVICE_STATUS', '_ENUM_SERVICE_STATUSA');
15679: TEnumServiceStatusA', '_ENUM_SERVICE_STATUSA');
15680: TEnumServiceStatus', 'TEnumServiceStatusA');
15681: SC_LOCK', '_Pointer');
15682: _QUERY_SERVICE_LOCK_STATUSA', 'record fIsLocked:DWORD; lpLockOner: PChar;dwLockDuration:DWORD;end';
15683: _QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15684: QUERY_SERVICE_LOCK_STATUSA', '_QUERY_SERVICE_LOCK_STATUSA');
15685: QUERY_SERVICE_LOCK_STATUS', '_QUERY_SERVICE_LOCK_STATUSA');
15686: TQueryServiceLockStatusA', '_QUERY_SERVICE_LOCK_STATUSA');
15687: //TQueryServiceLockStatusW', '_QUERY_SERVICE_LOCK_STATUSW');
15688: TQueryServiceLockStatus', 'TQueryServiceLockStatusA');
15689: _QUERY_SERVICE_CONFIGA', 'record dwServiceType : DWORD; dwStartT'
15690: +'ype : DWORD; dwErrorControl : DWORD; lpBinaryPathName : PChar; lpLoadO'
15691: +'rderGroup : PChar; dwTagId : DWORD; lpDependencies : PChar; lpServ'
15692: +'iceStartTime : PChar; lpDisplayName : PChar; end');
15693: _QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15694: QUERY_SERVICE_CONFIGA', '_QUERY_SERVICE_CONFIGA');
15695: QUERY_SERVICE_CONFIG', '_QUERY_SERVICE_CONFIGA');
15696: TQueryServiceConfigA', '_QUERY_SERVICE_CONFIGA');
15697: TQueryServiceConfig', 'TQueryServiceConfigA');
15698: Function CloseServiceHandle( hSCObject : SC_HANDLE ) : BOOL';
15699: Function ControlService(hService:SC_HANDLE;dwControl DWORD;var lpServiceStatus:TServiceStatus):BOOL;
15700: Function CreateService( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar;''
15701: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE');
15702: Function CreateServiceA( hSCManager : SC_HANDLE; lpServiceName, lpDisplayName : PChar; dwDesiredAccess,
dwServiceType, dwStartType, dwErrorControl : DWORD; lpBinaryPathName, lpLoadOrderGroup : PChar; ''
15703: +' lpdwTagId : DWORD; lpDependencies, lpServiceStartName, lpPassword : PChar ) : SC_HANDLE');
15704: Function DeleteService( hService : SC_HANDLE ) : BOOL';
15705: Function EnumDependentServices( hService : SC_HANDLE; dwServiceState : DWORD; var lpServices :
TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned : DWORD) : BOOL');
15706: Function EnumServicesStatus( hSCManager : SC_HANDLE; dwServiceType, dwServiceState : DWORD; var
lpServices : TEnumServiceStatus; cbBufSize : DWORD; var pcbBytesNeeded, lpServicesReturned, lpResumeHandle
: DWORD) : BOOL');
15707: Function GetServiceKeyName(hSCManager:SC_HANDLE;pDisplayName,lpServiceName:PChar;var
lpcchBuffer:DWORD):BOOL';
15708: Function GetServiceDisplayName(hSCManager:SC_HANDLE;lpServiceName,lpDisplayName:PChar;var
lpcchBuffer:DWORD):BOOL;
15709: Function LockServiceDatabase( hSCManager : SC_HANDLE ) : SC_LOCK );
15710: Function NotifyBootConfigStatus( BootAcceptable : BOOL ) : BOOL';
15711: Function OpenSCManager( lpMachineName, lpDatabaseName : PChar; dwDesiredAccess : DWORD ) : SC_HANDLE );
15712: Function OpenService(hSCManager:SC_HANDLE;lpServiceName:PChar;dwDesiredAccess:DWORD):SC_HANDLE';
15713: Function QueryServiceLockStatus( hSCManager : SC_HANDLE; var lpLockStatus : TQueryServiceLockStatus;
cbBufSize : DWORD; var pcbBytesNeeded : DWORD) : BOOL';
15714: Function QueryServiceStatus(hService:SC_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15715: Function SetServiceStatus(hServiceStatus:SERVICE_STATUS_HANDLE;var lpServiceStatus:TServiceStatus):BOOL;
15716: Function StartService(hService:SC_HANDLE;dwNumServiceArgs:DWORD;var lpServiceArgVectors:PChar):BOOL;
15717: Function UnlockServiceDatabase( ScLock : SC_LOCK ) : BOOL';
15718: end;
15719:
15720: procedure SIRegister_JvPickDate(CL: TPPascalCompiler);
15721: begin
15722: Function SelectDate( Sender : TWinControl; var Date : TDateTime; const DlgCaption : TCaption;
AStartOfWeek : TDayOfWeekName; AWeekends : TDaysOfWeek; AWeekendColor : TColor;
BtnHints:TStrings;MinDate:TDateTime;MaxDate: TDateTime):Boolean;
15723: Function SelectDateStr(Sender:TWinControl;var StrDate:string;const
DlgCaption:TCaption;AStartOfWeek:TDayOfWeekName;AWeekend:TDaysOfWeek;AWeekendClr:TColor;BtnHints:TStrings;MinDate:TDateTime;
15724: Function PopupDate(var Date:TDateTime; Edit:TWinControl; MinDate:TDateTime; MaxDate:TDateTime):Boolean;
15725: Function CreatePopupCalendar(AOwner:TComponent;ABiDiMode:TBiDiMode;MinDate:TDateTime;MaxDate:TDateTime):
TWinControl;
15726: Procedure SetupPopupCalendar(PopupCalendar:TWinControl;AStartOfWeek:TDayOfWeekName;AWeekends:TDaysOfWeek;
AWeekendColor:TColor;BtnHints:TStrings;FourDigitYear:Boolean;MinDate:TDateTime;MaxDate:TDateTime);

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15727: Function CreateNotifyThread(const
15728:   FolderName:string;WatchSubtree:Bool;Filter:TFileChangeFilters):TJvNotifyThread;
15729: end;
15730: procedure SIRegister_JclNTFS2(CL: TPSPascalCompiler);
15731: begin
15732:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EJclNtfsError');
15733:   CL.AddTypeS('TFileCompressionState', '( fcNoCompression, fcDefaultCompression, fcLZNT1Compression )');
15734:   Function NtfsGetCompression2( const FileName : TFileName; var State : Short ) : Boolean';
15735:   Function NtfsGetCompression12( const FileName : TFileName ) : TFileCompressionState';
15736:   Function NtfsSetCompression2( const FileName : TFileName; const State : Short ) : Boolean';
15737:   Procedure NtfsSetFileCompression2(const FileName : TFileName; const State : TFileCompressionState)';
15738:   Procedure NtfsSetDirectoryTreeCompression2(const Directory:string; const State:TFileCompressionState)';
15739:   Procedure NtfsSetDefaultFileCompression2(const Directory : string; const State:TFileCompressionState)';
15740:   Procedure NtfsSetPathCompression2(const Path:string;const State:TFileCompressionState;Recursive:Bool)';
15741:   Function NtfsSetSparse2( const FileName : string ) : Boolean';
15742:   Function NtfsZeroDataByHandle2( const Handle : THandle; const First, Last : Int64 ) : Boolean';
15743:   Function NtfsZeroDataByName2( const FileName : string; const First, Last : Int64 ) : Boolean';
15744:   Function NtfsSparseStreamsSupported2( const Volume : string ) : Boolean';
15745:   Function NtfsGetSparse2( const FileName : string ) : Boolean';
15746:   Function NtfsDeleteReparsePoint2( const FileName : string; ReparseTag : DWORD ) : Boolean';
15747:   Function NtfsSetReparsePoint2( const FileName : string; var ReparseData, Size : Longword ) : Boolean';
15748:   Function NtfsGetReparseTag2( const Path : string; var Tag : DWORD ) : Boolean';
15749:   Function NtfsReparsePointsSupported2( const Volume : string ) : Boolean';
15750:   Function NtfsFileHasReparsePoint2( const Path : string ) : Boolean';
15751:   Function NtfsIsFolderMountPoint2( const Path : string ) : Boolean';
15752:   Function NtfsMountDeviceAsDrive2( const Device : WideString; Drive : Char ) : Boolean';
15753:   Function NtfsMountVolume2( const Volume : WideString; const MountPoint : WideString ) : Boolean';
15754:   CL.AddTypeS('TOpLock', '( olExclusive, olReadOnly, olBatch, olFilter )');
15755:   Function NtfsOpLockAckClosePending2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15756:   Function NtfsOpLockBreakAckN22( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15757:   Function NtfsOpLockBreakAcknowledge2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15758:   Function NtfsOpLockBreakNotify2( Handle : THandle; Overlapped : TOverlapped ) : Boolean';
15759:   Function NtfsRequestOpLock2( Handle : THandle; Kind : TOpLock; Overlapped : TOverlapped ):Boolean';
15760:   Function NtfsCreateJunctionPoint2( const Source, Destination : string ) : Boolean';
15761:   Function NtfsDeleteJunctionPoint2( const Source : string ) : Boolean';
15762:   Function NtfsGetJunctionPointDestination2( const Source : string; var Destination: string):Boolean;
15763:   CL.AddTypeS('TStreamId', '( siInvalid, siStandard, siExtendedAttribute, siSec'
15764:     +'urity, siAlternate, siHardLink, siProperty, siObjectIdentifier, siReparsePoints,siSparseFile)');
15765:   CL.AddTypeS('TStreamIds', 'set of TStreamId');
15766:   TInternalFindStreamData', 'record FileHandle:THandle; Context: TObject; StreamIds:TStreamIds; end');
15767:   CL.AddTypeS('TFindStreamData', 'record Internal : TInternalFindStreamData; At'
15768:     +'tributes : DWORD; StreamID : TStreamId; Name: WideString; Size : Int64; end');
15769:   Function NtfsFindFirstStream2(const FileName:string;StreamIds:TStreamIds;var Data:TFindStreamData):Bool;
15770:   Function NtfsFindNextStream2( var Data : TFindStreamData) : Boolean';
15771:   Function NtfsFindStreamClose2( var Data : TFindStreamData) : Boolean';
15772:   Function NtfsCreateHardLink2( const LinkFileName, ExistingFileName : String ) : Boolean';
15773:   Function NtfsCreateHardLinkA2( const LinkFileName, ExistingFileName : AnsiString ) : Boolean';
15774:   Function NtfsCreateHardLinkW2( const LinkFileName, ExistingFileName : WideString ) : Boolean';
15775:   CL.AddTypeS('TNtfsHardLinkInfo', 'record LinkCount : Cardinal; FileIndex : Int64; end');
15776:   Function NtfsGetHardLinkInfo2( const FileName : string; var Info : TNtfsHardLinkInfo) : Boolean';
15777:   Function NtfsFindHardLinks2(const Path:string;const FileIndexHigh,FileIndexLow:Card;const
List:TStrings):Bool
15778:   Function NtfsDeleteHardLinks2( const FileName : string ) : Boolean';
15779:   FindClass('TOBJECT'), 'EJclFileSummaryError');
15780:   TJclFileSummaryAccess', '( fsaRead, fsaWrite, fsaReadWrite )';
15781:   TJclFileSummaryShare', '( fssDenyNone, fssDenyRead, fssDenyWrite, fssDenyAll )';
15782:   TJclFileSummaryPropSetCallback', 'Function ( const FMTID : TGUID ) : Boolean';
15783:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TJclFileSummary');
15784:   SIRegister_TJclFilePropertySet(CL);
15785:   //CL.AddTypeS('TJclFilePropertySetClass', 'class of TJclFilePropertySet');
15786:   SIRegister_TJclFileSummary(CL);
15787:   SIRegister_TJclFileSummaryInformation(CL);
15788:   SIRegister_TJclDocSummaryInformation(CL);
15789:   SIRegister_TJclMediaFileSummaryInformation(CL);
15790:   SIRegister_TJclMSISummaryInformation(CL);
15791:   SIRegister_TJclShellSummaryInformation(CL);
15792:   SIRegister_TJclStorageSummaryInformation(CL);
15793:   SIRegister_TJclImageSummaryInformation(CL);
15794:   SIRegister_TJclDisplacedSummaryInformation(CL);
15795:   SIRegister_TJclBriefCaseSummaryInformation(CL);
15796:   SIRegister_TJclMiscSummaryInformation(CL);
15797:   SIRegister_TJclWebViewSummaryInformation(CL);
15798:   SIRegister_TJclMusicSummaryInformation(CL);
15799:   SIRegister_TJclDRMSummaryInformation(CL);
15800:   SIRegister_TJclVideoSummaryInformation(CL);
15801:   SIRegister_TJclAudioSummaryInformation(CL);
15802:   SIRegister_TJclControlPanelSummaryInformation(CL);
15803:   SIRegister_TJclVolumeSummaryInformation(CL);
15804:   SIRegister_TJclShareSummaryInformation(CL);
15805:   SIRegister_TJclLinkSummaryInformation(CL);
15806:   SIRegister_TJclQuerySummaryInformation(CL);
15807:   SIRegister_TJclImageInformation(CL);
15808:   SIRegister_TJclJpegSummaryInformation(CL);
15809: end;
15810:
15811: procedure SIRegister_Jcl8087(CL: TPSPascalCompiler);
15812: begin
15813:   AddTypeS('T8087Precision', '( pcSingle, pcReserved, pcDouble, pcExtended )');

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

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

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15991: const 'BINDSTATUS_POLICY_HREF','LongInt').SetInt( BINDSTATUS_COOKIE_STATE_DOWNGRADE + 1);
15992: const 'BINDSTATUS_P3P_HEADER','LongInt').SetInt( BINDSTATUS_POLICY_HREF + 1);
15993: const 'BINDSTATUS_SESSION_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_P3P_HEADER + 1);
15994: const 'BINDSTATUS_PERSISTENT_COOKIE_RECEIVED','LongInt').SetInt( BINDSTATUS_SESSION_COOKIE_RECEIVED + 1);
15995: const 'BINDSTATUS_SESSION_COOKIES_ALLOWED','LongInt').SetInt( BINDSTATUS_PERSISTENT_COOKIE_RECEIVED + 1);
15996: const 'BINDSTATUS_CACHECONTROL','LongInt').SetInt( BINDSTATUS_SESSION_COOKIES_ALLOWED + 1);
15997: const 'BINDSTATUS_CONTENTDISPOSITIONFILENAME','LongInt').SetInt( BINDSTATUS_CACHECONTROL + 1);
15998: const 'BINDSTATUS_MIMETEXTPLAINMISMATCH','LongInt').SetInt( BINDSTATUS_CONTENTDISPOSITIONFILENAME + 1);
15999: const 'BINDSTATUS_PUBLISHERAVAILABLE','LongInt').SetInt( BINDSTATUS_MIMETEXTPLAINMISMATCH + 1);
16000: const 'BINDSTATUS_DISPLAYNAMEAVAILABLE','LongInt').SetInt( BINDSTATUS_PUBLISHERAVAILABLE + 1);
16001: // PBindInfo', '^TBindInfo // will not work');
16002: {_tagBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; stg'
16003: + 'medData : TStgMedium; grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVe'
16004: +'rb : LPWSTR; cbstgmedData : DWORD; dwOptions : DWORD; dwOptionsFlags : DWO'
16005: +'RD; dwCodePage : DWORD; securityAttributes : TSecurityAttributes; iid : TG'
16006: +'UID; pUnk : IUnknown; dwReserved : DWORD; end');
16007: TBindInfo', '_tagBINDINFO');
16008: BINDINFO', '_tagBINDINFO');
16009: _REMSecurity_ATTRIBUTES', 'record nLength : DWORD; lpSecurityDes'
16010: +'criptor : DWORD; bInheritHandle : BOOL; end');
16011: TRemSecurityAttributes', '_REMSecurity_ATTRIBUTES');
16012: REMSecurity_ATTRIBUTES', '_REMSecurity_ATTRIBUTES');
16013: //PremBindInfo', '^TRemBindInfo // will not work');
16014: {_tagRemBINDINFO', 'record cbSize : ULONG; szExtraInfo : LPWSTR; '
16015: +'grfBindInfoF : DWORD; dwBindVerb : DWORD; szCustomVerb : LPWSTR; cbstgmedD'
16016: +'ata : DWORD; dwOptions : DWORD; dwOptionsFlags : DWORD; dwCodePage : DWORD'
16017: +''; securityAttributes : TRemSecurityAttributes; iid : TGUID; pUnk : IUnknow'
16018: +'n; dwReserved : DWORD; end');
16019: TRemBindInfo', '_tagRemBINDINFO');
16020: RemBINDINFO', '_tagRemBINDINFO');
16021: //PREmFormatEtc', '^TRemFormatEtc // will not work');
16022: tagRemFORMATETC', 'record cfFormat:DWORD; ptd:DWORD; dwAspect:DWORD;lindex:Longint;tymed:DWORD; end');
16023: TRemFormatEtc', 'tagRemFORMATETC');
16024: RemFORMATETC', 'tagRemFORMATETC');
16025: SIRegister_IBindStatusCallback(CL);
16026: SIRegister_IAuthenticat(CL);
16027: SIRegister_IHttpNegotiate(CL);
16028: SIRegister_IWindowForBindingUI(CL);
16029: const 'CIP_DISK_FULL','LongInt').SetInt( 0);
16030: const 'CIP_ACCESS_DENIED','LongInt').SetInt( CIP_DISK_FULL + 1);
16031: const 'CIP_NEWER_VERSION_EXISTS','LongInt').SetInt( CIP_ACCESS_DENIED + 1);
16032: const 'CIP_Older_VERSION_EXISTS','LongInt').SetInt( CIP_NEWER_VERSION_EXISTS + 1);
16033: const 'CIP_NAME_CONFLICT','LongInt').SetInt( CIP_Older_VERSION_EXISTS + 1);
16034: const 'CIP_TRUST_VERIFICATION_COMPONENT_MISSING','LongInt').SetInt( CIP_NAME_CONFLICT + 1);
16035: const 'CIP_EXE_SELF_REGISTRATION_TIMEOUT',LongInt( CIP_TRUST_VERIFICATION_COMPONENT_MISSING + 1);
16036: const 'CIP_UNSAFE_TO_ABORT','LongInt').SetInt( CIP_EXE_SELF_REGISTRATION_TIMEOUT + 1);
16037: const 'CIP_NEED_REBOOT','LongInt').SetInt( CIP_UNSAFE_TO_ABORT + 1);
16038: const 'CIP_NEED_REBOOT_UI_PERMISSION','LongInt').SetInt( CIP_NEED_REBOOT + 1);
16039: SIRegister_ICodeInstall(CL);
16040: SIRegister_IWinInetInfo(CL);
16041: const 'WININETINFO_OPTION_LOCK_HANDLE','LongInt').SetInt( 65534);
16042: SIRegister_IHttpSecurity(CL);
16043: SIRegister_IWinInetHttpInfo(CL);
16044: SIRegister_IBindHost(CL);
16045: const 'URLOSTRM_USECACHEDCOPY_ONLY','LongWord').SetUInt( $00000001);
16046: const 'URLOSTRM_USECACHEDCOPY','LongWord').SetUInt( $00000002);
16047: const 'URLOSTRM_GETNEWESTVERSION','LongWord').SetUInt( $00000003);
16048: Function URLOpenStream( pl : IUnknown; p2 : PChar; p3 : DWORD; p4 : IBindStatusCallback ) : HResult';
16049: Function URLOpenPullStream( pl : IUnknown; p2 : PChar; p3 : DWORD; BSC : IBindStatusCallback ) : HResult';
16050: Function URLDownloadTofile( Caller : IUnknown; URL : PChar; FileName : PChar; Reserved : DWORD; StatusCB
: IBindStatusCallback ) : HResult';
16051: Function URLDownloadToCacheFile( pl : IUnknown; p2 : PChar; p3 : PChar; p4 : DWORD; p5 : DWORD; p6 :
IBindStatusCallback ) : HResult';
16052: Function URLOpenBlockingStream(pl:IUnknown;p2:PChar;out
p3:IStream;p4:DWORD;p5:IBindStatusCallback):HResult';
16053: Function HlinkGoBack( unk : IUnknown ) : HResult';
16054: Function HlinkGoForward( unk : IUnknown ) : HResult';
16055: Function HlinkNavigateString( unk : IUnknown; szTarget : LPCWSTR ) : HResult';
16056: // Function HlinkNavigateMoniker( Unk : IUnknown; mkTarget : IMoniker ) : HResult';
16057: SIRegister_IInternet(CL);
16058: const 'BINDSTRING_HEADERS','LongInt').SetInt( 1);
16059: const 'BINDSTRING_ACCEPT_MIMES','LongInt').SetInt( BINDSTRING_HEADERS + 1);
16060: const 'BINDSTRING_EXTRA_URL','LongInt').SetInt( BINDSTRING_ACCEPT_MIMES + 1);
16061: const 'BINDSTRING_LANGUAGE','LongInt').SetInt( BINDSTRING_EXTRA_URL + 1);
16062: const 'BINDSTRING_USERNAME','LongInt').SetInt( BINDSTRING_LANGUAGE + 1);
16063: const 'BINDSTRING_PASSWORD','LongInt').SetInt( BINDSTRING_USERNAME + 1);
16064: const 'BINDSTRING_UA_PIXELS','LongInt').SetInt( BINDSTRING_PASSWORD + 1);
16065: const 'BINDSTRING_UA_COLOR','LongInt').SetInt( BINDSTRING_UA_PIXELS + 1);
16066: const 'BINDSTRING_OS','LongInt').SetInt( BINDSTRING_UA_COLOR + 1);
16067: const 'BINDSTRING_USER_AGENT','LongInt').SetInt( BINDSTRING_OS + 1);
16068: const 'BINDSTRING_ACCEPT_ENCODINGS','LongInt').SetInt( BINDSTRING_USER_AGENT + 1);
16069: const 'BINDSTRING_POST_COOKIE','LongInt').SetInt( BINDSTRING_ACCEPT_ENCODINGS + 1);
16070: const 'BINDSTRING_POST_DATA_MIME','LongInt').SetInt( BINDSTRING_POST_COOKIE + 1);
16071: const 'BINDSTRING_URL','LongInt').SetInt( BINDSTRING_POST_DATA_MIME + 1);
16072: //POLEStrArray', '^TOLESTRArrray // will not work');
16073: SIRegister_IInternetBindInfo(CL);
16074: const 'PI_PARSE_URL','LongWord').SetUInt( $00000001);
16075: const 'PI_FILTER_MODE','LongWord').SetUInt( $00000002);
16076: const 'PI_FORCE_ASYNC','LongWord').SetUInt( $00000004);

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16077: const 'PI_USE_WORKERTHREAD', 'LongWord').SetUInt( $00000008);
16078: const 'PI_MIMEVERIFICATION', 'LongWord').SetUInt( $00000010);
16079: const 'PI_CLSIDLOOKUP', 'LongWord').SetUInt( $00000020);
16080: const 'PI_DATAPROGRESS', 'LongWord').SetUInt( $00000040);
16081: const 'PI_SYNCHRONOUS', 'LongWord').SetUInt( $00000080);
16082: const 'PI_APARTMENTTHREADED', 'LongWord').SetUInt( $00000100);
16083: const 'PI_CLASSINSTALL', 'LongWord').SetUInt( $00000200);
16084: const 'PD_FORCE_SWITCH', 'LongWord').SetUInt( $00010000);
16085: //const 'PI_DOCFILECLSIDLOOKUP','','').SetString( PI_CLSIDLOOKUP);
16086: //PProtocolData', '^TProtocolData // will not work');
16087: _tagPROTOCOLDATA', record grfFlags:DWORD; dwState:DWORD; pData : TObject; cbData : ULONG; end');
16088: TProtocolData', '_tagPROTOCOLDATA');
16089: PROTOCOLDATA', '_tagPROTOCOLDATA');
16090: CL.AddInterface(CL.FindInterface('IUNKNOWN'), IInternetProtocolSink, 'IInternetProtocolSink');
16091: SIRegister_IInternetProtocolRoot(CL);
16092: SIRegister_IInternetProtocol(CL);
16093: SIRegister_IInternetProtocolSink(CL);
16094: const 'OIBDG_APARTMENTTHREADED', 'LongWord').SetUInt( $00000100);
16095: SIRegister_IInternetSession(CL);
16096: SIRegister_IInternetThreadSwitch(CL);
16097: SIRegister_IInternetPriority(CL);
16098: const 'PARSE_CANONICALIZE', 'LongInt').SetInt( 1);
16099: const 'PARSE_FRIENDLY', 'LongInt').SetInt( PARSE_CANONICALIZE + 1);
16100: const 'PARSE_SECURITY_URL', 'LongInt').SetInt( PARSE_FRIENDLY + 1);
16101: const 'PARSE_ROOTDOCUMENT', 'LongInt').SetInt( PARSE_SECURITY_URL + 1);
16102: const 'PARSE_DOCUMENT', 'LongInt').SetInt( PARSE_ROOTDOCUMENT + 1);
16103: const 'PARSE_ANCHOR', 'LongInt').SetInt( PARSE_DOCUMENT + 1);
16104: const 'PARSE_ENCODE', 'LongInt').SetInt( PARSE_ANCHOR + 1);
16105: const 'PARSE_DECODE', 'LongInt').SetInt( PARSE_ENCODE + 1);
16106: const 'PARSE_PATH_FROM_URL', 'LongInt').SetInt( PARSE_DECODE + 1);
16107: const 'PARSE_URL_FROM_PATH', 'LongInt').SetInt( PARSE_PATH_FROM_URL + 1);
16108: const 'PARSE_MIME', 'LongInt').SetInt( PARSE_URL_FROM_PATH + 1);
16109: const 'PARSE_SERVER', 'LongInt').SetInt( PARSE_MIME + 1);
16110: const 'PARSE_SCHEMA', 'LongInt').SetInt( PARSE_SERVER + 1);
16111: const 'PARSE_SITE', 'LongInt').SetInt( PARSE_SCHEMA + 1);
16112: const 'PARSE_DOMAIN', 'LongInt').SetInt( PARSE_SITE + 1);
16113: const 'PARSE_LOCATION', 'LongInt').SetInt( PARSE_DOMAIN + 1);
16114: const 'PARSE_SECURITY_DOMAIN', 'LongInt').SetInt( PARSE_LOCATION + 1);
16115: const 'PSU_DEFAULT', 'LongInt').SetInt( 1);
16116: const 'PSU_SECURITY_URL_ONLY', 'LongInt').SetInt( PSU_DEFAULT + 1);
16117: const 'QUERY_EXPIRATION_DATE', 'LongInt').SetInt( 1);
16118: const 'QUERY_TIME_OF_LAST_CHANGE', 'LongInt').SetInt( QUERY_EXPIRATION_DATE + 1);
16119: const 'QUERY_CONTENT_ENCODING', 'LongInt').SetInt( QUERY_TIME_OF_LAST_CHANGE + 1);
16120: const 'QUERY_CONTENT_TYPE', 'LongInt').SetInt( QUERY_CONTENT_ENCODING + 1);
16121: const 'QUERY_REFRESH', 'LongInt').SetInt( QUERY_CONTENT_TYPE + 1);
16122: const 'QUERY_RECOMBINE', 'LongInt').SetInt( QUERY_REFRESH + 1);
16123: const 'QUERY_CAN_NAVIGATE', 'LongInt').SetInt( QUERY_RECOMBINE + 1);
16124: const 'QUERYUSES_NETWORK', 'LongInt').SetInt( QUERY_CAN_NAVIGATE + 1);
16125: const 'QUERY_IS_CACHED', 'LongInt').SetInt( QUERYUSES_NETWORK + 1);
16126: const 'QUERY_IS_INSTALLEDENTRY', 'LongInt').SetInt( QUERY_IS_CACHED + 1);
16127: const 'QUERY_IS_CACHED_OR_MAPPED', 'LongInt').SetInt( QUERY_IS_INSTALLEDENTRY + 1);
16128: const 'QUERYUSES_CACHE', 'LongInt').SetInt( QUERY_IS_CACHED_OR_MAPPED + 1);
16129: const 'QUERY_IS_SECURE', 'LongInt').SetInt( QUERYUSES_CACHE + 1);
16130: const 'QUERY_IS_SAFE', 'LongInt').SetInt( QUERY_IS_SECURE + 1);
16131: SIRegister_IInternetProtocolInfo(CL);
16132: IOInet', 'IInternet');
16133: IOInetBindInfo', 'IInternetBindInfo');
16134: IOInetProtocolRoot', 'IInternetProtocolRoot');
16135: IOInetProtocol', 'IInternetProtocol');
16136: IOInetProtocolSink', 'IInternetProtocolSink');
16137: IOInetProtocolInfo', 'IInternetProtocolInfo');
16138: IOInetSession', 'IInternetSession');
16139: IOInetPriority', 'IInternetPriority');
16140: IOInetThreadSwitch', 'IInternetThreadSwitch');
16141: Function CoInternetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16142: Function CoInternetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16143: Function CoInternetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : HResult');
16144: Function CoInternetGetProtocolFlags(pwzUrl:LPCWSTR;var dwFlags:DWORD; dwReserved:DWORD):HResult';
16145: Function CoInternetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16146: Function CoInternetGetSession(dwSessionMode:DWORD; var pIInternetSession: IInternetSes;dwReserved:DWORD):HResult;
16147: Function CoInternetGetSecurityUrl(pwzUrl:LPCWSTR;var pwzSecUrl:LPWSTR;psuAct:TPSUAction;dwReserv:DWORD):HResult;
16148: Function OInetParseUrl( pwzUrl : LPCWSTR; ParseAction : TParseAction; dwFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16149: Function OInetCombineUrl( pwzBaseUrl, pwzRelativeUrl : LPCWSTR; dwCombineFlags : DWORD; pszResult : LPWSTR; cchResult : DWORD; var pcchResult : DWORD; dwReserved : DWORD) : HResult');
16150: Function OInetCompareUrl( pwzUrl1, pwzUrl2 : LPCWSTR; dwFlags : DWORD) : Hresult');
16151: Function OInetGetProtocolFlags( pwzUrl : LPCWSTR; var dwFlags : DWORD; dwReserved : DWORD) : HResult';
16152: Function OInetQueryInfo( pwzUrl : LPCWSTR; QueryOptions : TQueryOption; dwQueryFlags : DWORD; pvBuffer : TObject; cbBuffer : DWORD; var pcbBuffer : DWORD; dwReserved : DWORD) : HResult');
16153: Function OInetGetSession(dwSessionMode:DWORD; var pIInternetSession:IInternetSession;dwReserved:DWORD):HResult;
16154: //Function CopyBindInfo( const cbisrc : TBindInfo; var bidest : TBindInfo) : HResult';
16155: //Procedure ReleaseBindInfo( const bindinfo : TBindInfo)');
16156: // const 'INET_E_USE_DEFAULT_PROTOCOLHANDLER', 'LongWord').SetUInt( HResult ( $800C0011 ));
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16157: // const 'INET_E_USE_DEFAULT_SETTING','LongWord').SetUInt( HResult ( $800C0012 ) );
16158: //const 'INET_E_DEFAULT_ACTION','LongWord').SetUInt( HResult ( $800C0011 ) );
16159: //const 'INET_E_QUERYOPTION_UNKNOWN','LongWord').SetUInt( HResult ( $800C0013 ) );
16160: //const 'INET_E_REDIRECTING','LongWord').SetUInt( HResult ( $800C0014 ) );
16161: const 'PROTOCOLFLAG_NO_PICS_CHECK','LongWord').SetUInt( $00000001 );
16162: SIRegister_IInternetSecurityMgrSite(CL);
16163: const 'MUTZ_NOSAVEDFILECHECK','LongWord').SetUInt( $00000001 );
16164: const 'MUTZ_ISFILE','LongWord').SetUInt( $00000002 );
16165: const 'MUTZ_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080 );
16166: const 'MUTZ_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );
16167: const 'MUTZ_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400 );
16168: const 'MAX_SIZE_SECURITY_ID','LongInt').SetInt( 512 );
16169: const 'PUAF_DEFAULT','LongWord').SetUInt( $00000000 );
16170: const 'PUAF_NOUI','LongWord').SetUInt( $00000001 );
16171: const 'PUAF_ISFILE','LongWord').SetUInt( $00000002 );
16172: const 'PUAF_WARN_IF_DENIED','LongWord').SetUInt( $00000004 );
16173: const 'PUAF_FORCEUI_FOREGROUND','LongWord').SetUInt( $00000008 );
16174: const 'PUAF_CHECK_TIFS','LongWord').SetUInt( $00000010 );
16175: const 'PUAF_DONTCHECKBOXINDIALOG','LongWord').SetUInt( $00000020 );
16176: const 'PUAF_TRUSTED','LongWord').SetUInt( $00000040 );
16177: const 'PUAF_ACCEPT_WILDCARD_SCHEME','LongWord').SetUInt( $00000080 );
16178: const 'PUAF_ENFORCERESTRICTED','LongWord').SetUInt( $00000100 );
16179: const 'PUAF_NOSAVEDFILECHECK','LongWord').SetUInt( $00000200 );
16180: const 'PUAF_REQUIRESAVEDFILECHECK','LongWord').SetUInt( $00000400 );
16181: const 'PUAF_LMZ_UNLOCKED','LongWord').SetUInt( $00010000 );
16182: const 'PUAF_LMZ_LOCKED','LongWord').SetUInt( $00020000 );
16183: const 'PUAF_DEFAULTZONEPOL','LongWord').SetUInt( $00040000 );
16184: const 'PUAF_NPL_USE_LOCKED_IF_RESTRICTED','LongWord').SetUInt( $00080000 );
16185: const 'PUAF_NOUIIFLOCKED','LongWord').SetUInt( $00100000 );
16186: const 'PUAFOUT_DEFAULT','LongWord').SetUInt( $0 );
16187: const 'PUAFOUT_ISLOCKZONEPOLICY','LongWord').SetUInt( $1 );
16188: const 'SZM_CREATE','LongWord').SetUInt( $00000000 );
16189: const 'SZM_DELETE','LongWord').SetUInt( $00000001 );
16190: SIRegister_IInternetSecurityManager(CL);
16191: SIRegister_IInternetHostSecurityManager(CL);
16192: SIRegister_IInternetSecurityManagerEx(CL);
16193: const 'URLACTION_MIN','LongWord').SetUInt( $00001000 );
16194: const 'URLACTION_DOWNLOAD_MIN','LongWord').SetUInt( $00001000 );
16195: const 'URLACTION_DOWNLOAD_SIGNED_ACTIVEVX','LongWord').SetUInt( $00001001 );
16196: const 'URLACTION_DOWNLOAD_UNSIGNED_ACTIVEVX','LongWord').SetUInt( $00001004 );
16197: const 'URLACTION_DOWNLOAD_CURR_MAX','LongWord').SetUInt( $00001004 );
16198: const 'URLACTION_DOWNLOAD_MAX','LongWord').SetUInt( $000011FF );
16199: const 'URLACTION_ACTIVEVX_MIN','LongWord').SetUInt( $00001200 );
16200: const 'URLACTION_ACTIVEVX_RUN','LongWord').SetUInt( $00001200 );
16201: const 'URLACTION_ACTIVEVX_OVERRIDE_OBJECT_SAFETY','LongWord').SetUInt( $00001201 );
16202: const 'URLACTION_ACTIVEVX_OVERRIDE_DATA_SAFETY','LongWord').SetUInt( $00001202 );
16203: const 'URLACTION_ACTIVEVX_OVERRIDE_SCRIPT_SAFETY','LongWord').SetUInt( $00001203 );
16204: const 'URLACTION_SCRIPT_OVERRIDE_SAFETY','LongWord').SetUInt( $00001401 );
16205: const 'URLACTION_ACTIVEVX_CONFIRM_NOOBJECTSAFETY','LongWord').SetUInt( $00001204 );
16206: const 'URLACTION_ACTIVEVX_TREATASUNTRUSTED','LongWord').SetUInt( $00001205 );
16207: const 'URLACTION_ACTIVEVX_NO_WEBOC_SCRIPT','LongWord').SetUInt( $00001206 );
16208: const 'URLACTION_ACTIVEVX_CURR_MAX','LongWord').SetUInt( $00001206 );
16209: const 'URLACTION_ACTIVEVX_MAX','LongWord').SetUInt( $000013FF );
16210: const 'URLACTION_SCRIPT_MIN','LongWord').SetUInt( $00001400 );
16211: const 'URLACTION_SCRIPT_RUN','LongWord').SetUInt( $00001400 );
16212: const 'URLACTION_SCRIPT_JAVA_USE','LongWord').SetUInt( $00001402 );
16213: const 'URLACTION_SCRIPT_SAFE_ACTIVEVX','LongWord').SetUInt( $00001405 );
16214: const 'URLACTION_SCRIPT_CURR_MAX','LongWord').SetUInt( $00001405 );
16215: const 'URLACTION_SCRIPT_MAX','LongWord').SetUInt( $000015FF );
16216: const 'URLACTION_HTML_MIN','LongWord').SetUInt( $00001600 );
16217: const 'URLACTION_HTML_SUBMIT_FORMS','LongWord').SetUInt( $00001601 );
16218: const 'URLACTION_HTML_SUBMIT_FORMS_FROM','LongWord').SetUInt( $00001602 );
16219: const 'URLACTION_HTML_SUBMIT_FORMS_TO','LongWord').SetUInt( $00001603 );
16220: const 'URLACTION_HTML_FONT_DOWNLOAD','LongWord').SetUInt( $00001604 );
16221: const 'URLACTION_HTML_JAVA_RUN','LongWord').SetUInt( $00001605 );
16222: const 'URLACTION_HTML_CURR_MAX','LongWord').SetUInt( $00001605 );
16223: const 'URLACTION_HTML_MAX','LongWord').SetUInt( $000017FF );
16224: const 'URLACTION_SHELL_MIN','LongWord').SetUInt( $00001800 );
16225: const 'URLACTION_SHELL_INSTALL_DTITEMS','LongWord').SetUInt( $00001800 );
16226: const 'URLACTION_SHELL_MOVE_OR_COPY','LongWord').SetUInt( $00001802 );
16227: const 'URLACTION_SHELL_FILE_DOWNLOAD','LongWord').SetUInt( $00001803 );
16228: const 'URLACTION_SHELL_VERB','LongWord').SetUInt( $00001804 );
16229: const 'URLACTION_SHELL_WEBVIEW_VERB','LongWord').SetUInt( $00001805 );
16230: const 'URLACTION_SHELL_SHELLEXECUTE','LongWord').SetUInt( $00001806 );
16231: const 'URLACTION_SHELL_EXECUTE_HIGHRISK','LongWord').SetUInt( $00001806 );
16232: const 'URLACTION_SHELL_EXECUTE_MODRISK','LongWord').SetUInt( $00001807 );
16233: const 'URLACTION_SHELL_EXECUTE_LOWRISK','LongWord').SetUInt( $00001808 );
16234: const 'URLACTION_SHELL_POPUPMGR','LongWord').SetUInt( $00001809 );
16235: const 'URLACTION_SHELL_CURR_MAX','LongWord').SetUInt( $00001809 );
16236: const 'URLACTION_SHELL_MAX','LongWord').SetUInt( $000019FF );
16237: const 'URLACTION_NETWORK_MIN','LongWord').SetUInt( $00001A00 );
16238: const 'URLACTION_CREDENTIALS_USE','LongWord').SetUInt( $00001A00 );
16239: const 'URLPOLICY_CREDENTIALS_SILENT_LOGON_OK','LongWord').SetUInt( $00000000 );
16240: const 'URLPOLICY_CREDENTIALS_MUST_PROMPT_USER','LongWord').SetUInt( $00010000 );
16241: const 'URLPOLICY_CREDENTIALS_CONDITIONAL_PROMPT','LongWord').SetUInt( $00020000 );
16242: const 'URLPOLICY_CREDENTIALS_ANONYMOUS_ONLY','LongWord').SetUInt( $00030000 );
16243: const 'URLACTION_AUTHENTICATE_CLIENT','LongWord').SetUInt( $00001A01 );
16244: const 'URLPOLICY_AUTHENTICATE_CLEARTEXT_OK','LongWord').SetUInt( $00000000 );
16245: const 'URLPOLICY_AUTHENTICATE_CHALLENGE_RESPONSE','LongWord').SetUInt( $00010000 );

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

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16333: TZoneAttributes', '_ZONEATTRIBUTES');
16334: ZONEATTRIBUTES', '_ZONEATTRIBUTES');
16335: const 'URLZONEREG_DEFAULT','LongInt').SetInt( 0 );
16336: const 'URLZONEREG_HKLM','LongInt').SetInt( URLZONEREG_DEFAULT + 1 );
16337: const 'URLZONEREG_HKCU','LongInt').SetInt( URLZONEREG_HKLM + 1 );
16338: SIRegister_IInternetZoneManager(CL);
16339: SIRegister_IInternetZoneManagerEx(CL);
16340: const 'SOFTDIST_FLAG_USAGE_EMAIL','LongWord').SetUInt( $00000001);
16341: const 'SOFTDIST_FLAG_USAGE_PRECACHE','LongWord').SetUInt( $00000002);
16342: const 'SOFTDIST_FLAG_USAGE_AUTOINSTALL','LongWord').SetUInt( $00000004);
16343: const 'SOFTDIST_FLAG_DELETE_SUBSCRIPTION','LongWord').SetUInt( $00000008);
16344: const 'SOFTDIST_ADSTATE_NONE','LongWord').SetUInt( $00000000);
16345: const 'SOFTDIST_ADSTATE_AVAILABLE','LongWord').SetUInt( $00000001);
16346: const 'SOFTDIST_ADSTATE_DOWNLOADED','LongWord').SetUInt( $00000002);
16347: const 'SOFTDIST_ADSTATE_INSTALLED','LongWord').SetUInt( $00000003);
16348: //PCodeBaseHold', '^TCodeBaseHold // will not work');
16349: _tagCODEBASEHOLD', 'record cbSize : ULONG; szDistUnit : LPWSTR;
16350: + 'szCodeBase : LPWSTR; dwVersionMS : DWORD; dwVersionLS : DWORD; dwStyle : DWORD; end');
16351: TCodeBaseHold', '_tagCODEBASEHOLD');
16352: CODEBASEHOLD', '_tagCODEBASEHOLD');
16353: //PSoftDistInfo', '^TSoftDistInfo // will not work');
16354: _tagSOFTDISTINFO', 'record cbSize : ULONG; dwFlags : DWORD; dwAd';
16355: +'State : DWORD; szTitle : LPWSTR; szAbstract : LPWSTR; szHREF : LPWSTR; dwI';
16356: +'nstalledVersionMS : DWORD; dwInstalledVersionLS : DWORD; dwUpdateVersionMS';
16357: +' : DWORD; dwUpdateVersionLS : DWORD; dwAdvertisedVersionMS : DWORD; dwAdve';
16358: +'rtisedVersionLS : DWORD; dwReserved : DWORD; end');
16359: TSoftDistInfo', '_tagSOFTDISTINFO');
16360: SOFTDISTINFO', '_tagSOFTDISTINFO');
16361: SIRegister_ISoftDistExt(CL);
16362: Function GetSoftwareUpdateInfo( szDistUnit : LPCWSTR; var dsi : TSoftDistInfo) : HResult');
16363: Function SetSoftwareUpdateAdvertisementState(szDistUnit: LPCWSTR; dwAdState, dwAdvertisedVersionMS,
dwAdvertisedVersionLS : DWORD) : HResult');
16364: SIRegister_IDatafilter(CL);
16365: //PProtocolFilterData', '^TProtocolFilterData // will not work');
16366: _tagPROTOCOLFILTERDATA', 'record cbSize : DWORD; ProtocolSink : ';
16367: +'IInternetProtocolSink; Protocol : IIInternetProtocol; Unk : IUnknown; dwFil';
16368: +'terFlags : DWORD; end');
16369: TProtocolFilterData', '_tagPROTOCOLFILTERDATA');
16370: PROTOCOLFILTERDATA', '_tagPROTOCOLFILTERDATA');
16371: //PDataInfo', '^TDataInfo // will not work');
16372: _tagDATAINFO', 'record ulTotalSize : ULONG; ulavrPacketSize : UL';
16373: +'ONG; ulConnectSpeed : ULONG; ulProcessorSpeed : ULONG; end');
16374: TDataInfo', '_tagDATAINFO');
16375: DATAINFO', '_tagDATAINFO');
16376: SIRegister_IEncodingFilterFactory(CL);
16377: Function IsLoggingEnabled( pszUrl : PChar) : BOOL';
16378: //Function IsLoggingEnabledA( pszUrl : PAnsiChar) : BOOL';
16379: //Function IsLoggingEnabledW( pszUrl : PWideChar) : BOOL';
16380: //PHitLoggingInfo', '^THitLoggingInfo // will not work');
16381: _tagHIT_LOGGING_INFO', 'record dwStructSize : DWORD; lpszLoggedU';
16382: +'rlName : LPSTR; StartTime : TSystemTime;EndTime:TSystemTime; lpszExtendedInfo : LPSTR; end');
16383: THitLoggingInfo', '_tagHIT_LOGGING_INFO');
16384: HIT_LOGGING_INFO', '_tagHIT_LOGGING_INFO');
16385: Function WriteHitLogging( const Logginginfo : THitLoggingInfo) : BOOL');
16386: end;
16387:
16388: procedure SIRegister_DFFUtils(CL: TPSPascalCompiler);
16389: begin
16390: Procedure reformatMemo( const m : TCustomMemo)');
16391: Procedure SetMemoMargins( m : TCustomMemo; const L, T, R, B : integer)');
16392: Procedure MoveToTop( memo : TMemo)');
16393: Procedure ScrollToTop( memo : TMemo)');
16394: Function LineNumberClicked( memo : TMemo) : integer');
16395: Function MemoClickedLine( memo : TMemo) : integer');
16396: Function ClickedMemoLine( memo : TMemo) : integer');
16397: Function MemoLineClicked( memo : TMemo) : integer');
16398: Function LinePositionClicked( Memo : TMemo) : integer');
16399: Function ClickedMemoPosition( memo : TMemo) : integer');
16400: Function MemoPositionClicked( memo : TMemo) : integer');
16401: Procedure AdjustGridSize( grid : TDrawGrid)');
16402: Procedure DeleteGridRow( Grid : TStringGrid; const ARow : integer)');
16403: Procedure InsertgridRow( Grid : TStringGrid; const ARow : integer)');
16404: Procedure Sortgrid( Grid : TStringGrid; const SortCol : integer)');
16405: Procedure Sortgrid1(Grid:TStringGrid; const SortCol : integer; sortascending : boolean;');
16406: Procedure sortstrDown( var s : string)');
16407: Procedure sortstrUp( var s : string)');
16408: Procedure rotatestrleft( var s : string)');
16409: Function dffstrtofloatdef( s : string; default : extended) : extended');
16410: Function deblank( s : string) : string');
16411: Function IntToBinaryString( const n : integer; MinLength : integer) : string');
16412: Procedure FreeAndClearListBox( C : TListBox;');
16413: Procedure FreeAndClearMemo( C : TMemo;');
16414: Procedure FreeAndClearStringList( C : TStringList;');
16415: Function dffgetfilesize( f : TSearchrec) : int64');
16416: end;
16417:
16418: procedure SIRegister_MathsLib(CL: TPSPascalCompiler);
16419: begin
16420: CL.AddTypeS('intset', 'set of byte');

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16421: TPoint64', 'record x : int64; y : int64; end');
16422: Function GetNextPandigital( size : integer; var Digits : array of integer) : boolean');
16423: Function IsPolygonal( T : int64; var rank : array of integer) : boolean');
16424: Function GeneratePentagon( n : integer) : integer');
16425: Function IsPentagon( p : integer) : boolean');
16426: Function isSquare( const N : int64) : boolean');
16427: Function isCube( const N : int64) : boolean');
16428: Function isPalindrome( const n : int64) : boolean');
16429: Function isPalindromel( const n : int64; var len : integer) : boolean');
16430: Function GetEulerPhi( n : int64) : int64');
16431: Function dffIntPower( a, b : int64) : int64');
16432: Function IntPowerl( a : extended; b : int64) : extended');
16433: Function gcd2( a, b : int64) : int64');
16434: Function GCDMany( A : array of integer) : integer');
16435: Function LCMMany( A : array of integer) : integer');
16436: Procedure ContinuedFraction(A: array of int64;const wholepart:integer;var numerator,denominator:int64);
16437: Function dffFactorial( n : int64) : int64');
16438: Function digitcount( n : int64) : integer');
16439: Function nextpermute( var a : array of integer) : boolean');
16440: Function convertfloattofractionstring(N:extended; maxdenom:integer; multipleof : boolean) : string');
16441: Function convertStringToDecimal( s : string; var n : extended) : Boolean');
16442: Function InttoBinaryStr( nn : integer) : string');
16443: Function StrtoAngle( const s : string; var angle : extended) : boolean');
16444: Function AngleToStr( angle : extended) : string');
16445: Function deg2rad( deg : extended) : extended');
16446: Function rad2deg( rad : extended) : extended');
16447: Function GetLongToMercProjection( const long : extended) : extended');
16448: Function GetLatToMercProjection( const Lat : Extended) : Extended');
16449: Function GetMercProjectionToLong( const Projlong : extended) : extended');
16450: Function GetMercProjectionToLat( const ProjLat : extended) : extended');
16451: SIRegister_TPrimes(CL);
16452: //RIRegister_TPrimes(CL);
16453: //CL.AddConstantN('deg','LongInt').SetInt( char( 176));
16454: CL.AddConstantN('minmark','LongInt').SetInt(( 180));
16455: Function Random64( const N : Int64) : Int64);
16456: Procedure Randomize64');
16457: Function Random64l : extended);
16458: Procedure GetParens( Variables : string; OpChar : char; var list : TStringlist)//DFFUtils
16459: end;
16460:
16461: procedure SIRegister_UGeometry(CL: TPPascalCompiler);
16462: begin
16463: TrealPoint', 'record x : extended; y : extended; end');
16464: Tline', 'record pl : TPoint; p2 : TPoint; end');
16465: TRealLine', 'record pl : TRealPoint; p2 : TRealPoint; end');
16466: TCircle', 'record cx : integer; cy : integer; r : integer; end');
16467: TRealCircle', 'record cx : extended; cy : extended; r : extended; end');
16468: PPResult', '( POutside, PPIInside, PPVertex, PPEdge, PPError )');
16469: Function realpoint( x, y : extended) : TRealPoint');
16470: Function dist( const pl, p2 : TrealPoint) : extended');
16471: Function intdist( const pl, p2 : TPoint) : integer');
16472: Function dffline( const pl, p2 : TPoint) : Tline');
16473: Function Linel( const pl, p2 : TRealPoint) : TRealline');
16474: Function dffcircle( const cx, cy, R : integer) : TCircle');
16475: Function Circlel( const cx, cy, R : extended) : TRealCircle');
16476: Function GetTheta( const L : TLine) : extended');
16477: Function GetThetaL( const pl, p2 : TPoint) : extended');
16478: Function GetTheta2( const pl, p2 : TRealPoint) : extended');
16479: Procedure Extendline( var L : TLine; dist : integer)');
16480: Procedure Extendline1( var L : TRealLine; dist : extended)');
16481: Function Linesintersect( line1, line2 : TLine) : boolean');
16482: Function ExtendedLinesIntersect(Linel,Line2:TLine; const extendlines:bool;var IP:TPoint):bool;
16483: Function ExtendedLinesIntersect1(const Linel,Line2:TLine;const extendlines:bool;var IP:TRealPoint):bool;
16484: Function Intersect( L1, L2 : TLine; var pointonborder : boolean; var IP : TPoint) : boolean');
16485: Function PointPerpendicularLine( L : TLine; P : TPoint) : TLine');
16486: Function PerpDistance( L : TLine; P : TPoint) : Integer');
16487: Function AngledLineFromLine( L : TLine; P : TPoint; Dist : extended; alpha : extended) : TLine');
16488: Function
AngledLineFromLine1(L:TLine;P:TPoint;Dist:extended;alpha:extended;useScreenCoordinates:bool):TLine;
16489: Function PointInPoly( const p : TPoint; Points : array of TPoint) : PPResult');
16490: Function PolygonArea(const points:array of TPoint;const screencoordinates:boolean;var
Clockwise:bool):integer;
16491: Procedure InflatePolygon(const points:array of Tpoint; var points2:array of TPoint;var area:integer;
const screenCoordinates : boolean; const inflateby : integer)');
16492: Function PolyBuiltClockwise(const points:array of TPoint;const screencoordinates:boolean):bool;
16493: Function DegtoRad( d : extended) : extended');
16494: Function RadtoDeg( r : extended) : extended');
16495: Procedure TranslateLeftTo( var L : TLine; newend : TPoint)');
16496: Procedure TranslateLeftTo1( var L : TrealLine; newend : TrealPoint)');
16497: Procedure RotateRightEndBy( var L : TLine; alpha : extended)');
16498: Procedure RotateRightEndTo( var L : TLine; alpha : extended)');
16499: Procedure RotateRightEndTo1( var pl, p2 : Trealpoint; alpha : extended)');
16500: Function CircleCircleIntersect( c1, c2 : TCircle; var IP1, Ip2 : TPoint) : boolean');
16501: Function CircleCircleIntersect1( c1, c2 : TRealCircle; var IP1, Ip2 : TRealPoint) : boolean');
16502: Function PointCircleTangentLines( const C : TCircle; const P : TPoint; var L1, L2 : TLine) : boolean');
16503: Function CircleCircleExtTangentLines(C1,C2:TCircle;var C3:TCircle;var L1,L2,PL1,PL2,Tl1,Tl2:TLine):Bool;
16504: end;
16505:
16506:

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16507: procedure SIRegister_UAstronomy(CL: TPSPPascalCompiler);
16508: begin
16509:   TCoordType', '( ctUnknown, ctAzAlt, ctEclLonLat, ctRADecl, ctHADecl, ctGalLonLat ')');
16510:   TDType', '( ttLocal, ttUT, ttGST, ttLST )');
16511:   TRPoint', 'record x : extended; y : extended; CoordType : TCoordType; end');
16512:   TSunrec', 'record TrueEclLon:extended;
16513:     AppEclLon:extended; AUDistance:extended;TrueHADecl:TRPoint;TrueRADecl : TRPoint;
16514:     TrueAzAl:TRPoint;AppHADecl:TRPoint;AppRADecl:TRPoint;AppAzAlt:TRPoint;SunMeanAnomaly:extended;end;
16515:     TMoonRec', 'record ECLonLat : TRPoint; AZAlt : TRPoint; RADecl : '
16516:       +' TRPoint; HorizontalParallax : extended; AngularDiameter : extended; KMtoE'
16517:       +' arth : extended; Phase : extended; end');
16518:     TMoonEclipseAdd', 'record UmbralStartTime : TDatetime; UmbralEnd'
16519:       +' Time : TDatetime; TotalStartTime : TDatetime; TotalEndTime : TDatetime; end');
16520:     TPlanet', '( MERCURY, VENUS, MARS, JUPITER, SATURN, URANUS, NEPTUNE, PLUTO )');
16521:     TPlanetRec', 'record AsOf : TDatetime; Name : string; MeanLon : '
16522:       +'extended; MeanLonMotion : extended; LonOfPerihelion : extended; Eccentrici'
16523:       +'ty : extended; Inclination : extended; LonAscendingNode : extended; SemiMa'
16524:       +'jorAxis : extended; AngularDiameter : extended; Magnitude : extended; end');
16525:     TPlanetLocRec', 'record PlanetBaseData : TPlanetrec; HelioCentricLonLat : TRpoint; RadiusVector :
16526:       extended; UncorrectedEarthDistance : extended; GeoEclLonLat : TRpoint; CorrectedEarthDistance:extended;
16527:       ApparentRaDecl:TRPoint; end');
16528:     SIRegister_TAstronomy(CL);
16529:     Function AngleToStr( angle : extended) : string');
16530:     Function StrToAngle( s : string; var angle : extended) : boolean';
16531:     Function HoursToStr24( t : extended) : string');
16532:     Function RPoint( x, y : extended) : TRPoint');
16533:     Function getStimeName( t : TDType) : string');
16534:   end;
16535:   procedure SIRegister_UCardComponentV2(CL: TPSPPascalCompiler);
16536:   begin
16537:     TCardValue', 'Integer');
16538:     TCardSuit', '( Spades, Diamonds, Clubs, Hearts )');
16539:     Type(TDecks,Standard1,Standard2,Fishes1,Fishes2,Beach,Leaves1,Leaves2,Robot,Roses,Shell,Castle,Hand);
16540:     SIRegister_TCard(CL);
16541:     SIRegister_TDeck(CL);
16542:   end;
16543:   procedure SIRegister_UTGraphSearch(CL: TPSPPascalCompiler);
16544:   begin
16545:     tMethodCall', 'Procedure');
16546:     tVerboseCall', 'Procedure ( s : string)');
16547:     // PTEdge', '^TEdge // will not work');
16548:     TEdge', 'record FromNodeIndex : Integer; ToNodeIndex : Integer;
16549:       +'Weight : integer; work : integer; Len : integer; Highlight : boolean; end');
16550:     SIRegister_TNode(CL);
16551:     SIRegister_TGraphList(CL);
16552:   end;
16553:   procedure SIRegister_UParser10(CL: TPSPPascalCompiler);
16554:   begin
16555:     ParserFloat', 'extended');
16556:     //PParserFloat', '^ParserFloat // will not work');
16557:     TDFFToken', '( variab, constant, minus, sum, diff, prod, divis, mod'
16558:       +'ulo, IntDiv, IntDIV2, integerpower, realpower,square,third,fourth,FuncOneVar,FuncTwoVar ');
16559:     //POperation', '^Operation // will not work');
16560:     TDFFOperation', 'record Arg1 : PParserFloat; Arg2 : PParserFloat; D'
16561:       +'est : PParserFloat; NextOperation : POperation; Operation : TMathProcedure'
16562:       +'; Token : TDFFToken; end');
16563:     TMathProcedure', 'procedure(AnOperation: TDFFOperation)');
16564:     (CL.FindClass('TOBJECT'),'EMathParserError');
16565:     CL.FindClass('TOBJECT','ESyntaxError');
16566:     (CL.FindClass('TOBJECT'),'EExpressionHasBlanks');
16567:     (CL.FindClass('TOBJECT'),'EExpressionTooComplex');
16568:     (CL.FindClass('TOBJECT'),'ETooManyNestings');
16569:     (CL.FindClass('TOBJECT'),'EMissMatchingBracket');
16570:     (CL.FindClass('TOBJECT'),'EBadName');
16571:     (CL.FindClass('TOBJECT'),'EParserInternalError');
16572:     ('TEXParserExceptionEvent', 'Procedure ( Sender : TObject; E : Exception)');
16573:     SIRegister_TCustomParser(CL);
16574:     SIRegister_TExParser(CL);
16575:   end;
16576:   end;
16577:   function isService: boolean;
16578:   begin
16579:     result:= NOT(Application is TApplication);
16580:     {result:= Application is TServiceApplication;}
16581:   end;
16582:   function isApplication: boolean;
16583:   begin
16584:     result:= Application is TApplication;
16585:   end;
16586:   result:= Application is TApplication;
16587: end;
16588: //SM_REMOTESESSION = $1000
16589: function isTerminalSession: boolean;
16590: begin
16591:   result:= GetSystemMetrics(SM_REMOTESESSION) > 0;

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16592: end;
16593:
16594: procedure SIRegister_cyIEUtils(CL: TPSPPascalCompiler);
16595: begin
16596:   CL.AddTypeS('TwbPageSetup', 'record font : String; footer : String; header : '
16597:     + 'String; margin_bottom : String; margin_left : String; margin_right : String'
16598:     + 'g; margin_top : String; Print_Background : String; Shrink_To_Fit : String; end');
16599:   Function cyURLEncode( const S : string ) : string';
16600:   Function MakeResourceURL( const ModuleName:string;const ResName:PChar;const ResType:PChar):string;
16601:   Function MakeResourceURL1( const Module:HMODULE;const ResName:PChar;const ResType:PChar):string;
16602:   Function cyColorToHtml( aColor : TColor ) : String';
16603:   Function HtmlToColor( aHtmlColor : String ) : TColor';
16604: //Function GetStreamEncoding( aStream : TStream ) : TEncoding';
16605: // Function IsStreamEncodedWith( aStream : TStream; Encoding : TEncoding ) : Boolean';
16606:   Function AddHtmlUnicodePrefix( aHtml : String ) : String';
16607:   Function RemoveHtmlUnicodePrefix( aHtml : String ) : String';
16608:   Procedure GetPageSetupFromRegistry( var awbPageSetup : TwbPageSetup );
16609:   Procedure SetPageSetupToRegistry( awbPageSetup : TwbPageSetup );
16610:   CL.AddConstantN('IEBodyBorderless','String').SetString( 'none' );
16611:   CL.AddConstantN('IEBodySingleBorder','String').SetString( '' );
16612:   CL.AddConstantN('IEDesignModeOn','String').SetString( 'On' );
16613:   CL.AddConstantN('IEDesignModeOff','String').SetString( 'Off' );
16614:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FEFF );
16615:   CL.AddConstantN('cHtmlUnicodePrefixChar','Char').SetString( #$FE );
16616: end;
16617:
16618:
16619: procedure SIRegister_UcomboV2(CL: TPSPPascalCompiler);
16620: begin
16621:   CL.AddConstantN('UMaxEntries','LongInt').SetInt( 600 );
16622:   CL.AddTypeS('TCombotype', '( Combinations, Permutations, CombinationsDown, Pe'
16623:     + 'rmutationsDown, CombinationsCoLex, CombinationsCoLexDown, PermutationsRepe'
16624:     + 'at, PermutationsWithRep, PermutationsRepeatDown, CombinationsWithrep, Comb'
16625:     + 'inationsRepeat, CombinationsRepeatDown )');
16626:   CL.AddTypeS('TByteArray64', 'array[0..600 + 1] of int64;');
16627:   SIRegister_TComboSet(CL);
16628: end;
16629:
16630: procedure SIRegister_cyBaseComm(CL: TPSPPascalCompiler);
16631: begin
16632:   TcyCommandType', '( ctDevelopperDefined, ctUserDefined )';
16633:   TStreamContentType', '( scDevelopperDefined, scUserDefined, scString )';
16634:   TProcOnReceiveCommand', 'Procedure ( Sender: TObject; aCommand: Word; userParam : Integer )';
16635:   TProcOnReceiveString', 'Procedure ( Sender : TObject; fromBaseCo'
16636:     + 'mmHandle : THandle; aString : String; userParam : Integer )';
16637:   TProcOnReceiveMemoryStream', 'Procedure ( Sender : TObject; from'
16638:     + 'BaseCommHandle : THandle; aStream : TMemoryStream; userParam : Integer )';
16639:   SIRegister_TcyBaseComm(CL);
16640:   CL.AddConstantN('MsgCommand','LongInt').SetInt( WM_USER + 1 );
16641:   CL.AddConstantN('MsgResultOk','LongInt').SetInt( 99 );
16642:   Function ValidateFileMappingName( aName : String ) : String';
16643:   procedure makeCaption(leftSide, Rightside:string; form:TForm);
16644: end;
16645:
16646: procedure SIRegister_cyDERUtils(CL: TPSPPascalCompiler);
16647: begin
16648:   CL.AddTypeS('DERString', 'String');
16649:   CL.AddTypeS('DERChar', 'Char');
16650:   CL.AddTypeS('TElementsType', '( etText, etExpressionKeyWord, etNumbers, etInt'
16651:     + 'eger, etFloat, etPercentage, etwebSite, etWebMail, etMoney, etDate, etTextLine, etParagraph )');
16652:   CL.AddTypeS('TElementsTypes', 'set of TEelementsType');
16653:   CL.AddTypeS('DERNString', 'String');
16654:   const DERDecimalSeparator', 'String').SetString( '.' );
16655:   const DERDefaultChars', 'String')('`@%'
16656:   _.:0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ');
16657:   const DERDefaultChars', 'String').SetString( '/%-0123456789abcdefghijklmnopqrstuvwxyz' );
16658:   CL.AddDelphiFunction( 'Function isValidWebSiteChar( aChar : Char ) : Boolean' );
16659:   Function isValidWebMailChar( aChar : Char ) : Boolean';
16660:   Function isValidwebSite( aStr : String ) : Boolean';
16661:   Function isValidWebMail( aStr : String ) : Boolean';
16662:   Function ValidateDate( aDERStr : DERString; var RsltFormat : String ) : Boolean';
16663:   Function DERStrToDate( aDERStr, aFormat : String ) : TDate';
16664:   Function IsDERChar( aChar : Char ) : Boolean';
16665:   Function IsDERDefaultChar( aChar : Char ) : Boolean';
16666:   Function IsDERMoneyChar( aChar : Char ) : Boolean';
16667:   Function IsDEREexceptionCar( aChar : Char ) : Boolean';
16668:   Function IsDERSymbols( aDERString : String ) : Boolean';
16669:   Function StringToDERCharSet( aStr : String ) : DERString';
16670:   Function IsDERNChar( aChar : Char ) : Boolean';
16671:   Function DERToDERNCharset( aDERStr : DERString ) : DERNString';
16672:   Function DERExtractwebSite( aDERStr : DERString; SmartRecognition : Boolean ) : String';
16673:   Function DERExtractWebMail( aDERStr : DERString ) : String';
16674:   Function DERExtractPhoneNr( aDERStr : DERString ) : String';
16675:   Function DERExecute(aDERStr:DERString;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;
16676:   Function DERExecute1(aDERStr : DERString; var RsltNumbers, RsltInteger, RsltFloat, RsltPercentage,
RsltwebSite, RsltWebMail,RsltMoney,RsltDate:String;SmartNumbersRecognition,
SmartWebsiteRecognition:Boolean):TElementsType;

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16677: Function RetrieveElementValue( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition: Boolean;
16678:   aElementsType : TElementsType ) : String;');
16679: Procedure RetrieveElementValue1( aStr : String; SmartNumbersRecognition, SmartWebsiteRecognition :
16680:   Boolean; var RsltDERStr : DERString; var RsltElementType : TElementsType );';
16681: end;
16680:
16681: procedure SIRegister_cyImage(CL: TPSPascalCompiler);
16682: begin
16683:   pRGBQuadArray', '^TRGBQuadArray // will not work');
16684:   Function BitmapsCompare(Bmp1:TBitmap;Bmp2:TBitmap;FirstCol,LastCol,FirstRow,LastRow:Int):Integer');
16685:   Procedure BitmapSetPercentBrightness( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16686:   Procedure BitmapSetPixelsBrightness( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16687:   Procedure BitmapSetPercentContrast( Bmp : TBitmap; IncPercent : Integer; RefreshBmp : Boolean)');
16688:   Procedure BitmapSetPixelsContrast( Bmp : TBitmap; IncPixels : Integer; RefreshBmp : Boolean)');
16689:   Procedure BitmapNegative( Bmp : TBitmap; RefreshBmp : Boolean)');
16690:   Procedure BitmapModifyRGB( Bmp:TBitmap;IncRed:Integer;IncGreen:Int;IncBlue:Int;RefreshBmp:Bool;
16691:   Procedure BitmapReplaceColor(Bmp : TBitmap; OldColor : TColor; NewColor : TColor; RangeRed, RangeGreen,
16692:     RangeBlue : Word; SingleDestinationColor : Boolean; RefreshBmp : Boolean);');
16693:   Procedure BitmapReplaceColor1( Bmp:TBitmap; OldColor:TColor;NewColor:TColor;PercentRange1Red,
16694:     PercentRange1Green, PercentRange1Blue:Extended;PercentRange2Red,PercentRange2Green,
16695:     PercentRange2Blue:Double;SingleDestinationColor : Boolean;RefreshBmp:Bool );
16696:   Procedure BitmapReplaceColors(Bmp: TBitmap; Array_OldPalette, Array_NewPalette : array of TColor;
16697:     SingleDestinationColor, RefreshBmp : Boolean);');
16698:   Procedure BitmapResize(SourceBmp:TBitmap;DestinationBmp:TBitmap;Percent:Extended;RefreshBmp : Boolean)');
16699:   Procedure BitmapRotate( Bmp : TBitmap; AngleDegree : Word; AdjustSize : Boolean; BkColor : TColor)');
16700:   Procedure BitmapBlur(SourceBmp:TBitmap;DestinationBmp:TBitmap;Pixels:Word;Percent:Integer;RefreshBmp:Bool;
16701:   Procedure GraphicMirror(Source:TGraphic;Destination:TCanvas;Left,Top:Integer;Horizontal:Boolean;Vertical:Boolean);
16702:   Function BitmapCreate(BmpWidth:Integer;BmpHeight:Integer;BgColor:TColor;PixelFormat:TPixelFormat):TBitmap;
16703:   Procedure BitmapSaveToJpegFile( Bmp : TBitmap; FileName : String; QualityPercent : Word)');
16704:   Procedure JpegSaveToBitmapFile( JPEG : TJPEGImage; FileName : String)');
16705: end;
16703:
16704: procedure SIRegister_WaveUtils(CL: TPSPascalCompiler);
16705: begin
16706:   TMS2StrFormat', '( msHMSH, msHMS, msMS, msSh, msS, msAh,msA )');
16707:   TPCMChannel', '( cMono, cStereo )');
16708:   TPCMSamplesPerSec', '( ss8000Hz, ss11025Hz, ss22050Hz, ss44100Hz, ss48000Hz )');
16709:   TPCMBytesPerSample', '( bs8Bit, bsl6Bit )');
16710:   TPCMFormat', '( nonePCM, Mono8Bit8000Hz, Stereo8bit8000Hz, Mono1b'
16711:     +'6bit8000Hz, Stereo16bit8000Hz, Mono8bit11025Hz, Stereo8bit11025Hz, Mono16b'
16712:     +'it11025Hz, Stereo16bit11025Hz, Mono8bit22050Hz, Stereo8bit22050Hz, Mono16b'
16713:     +'it22050Hz, Stereo16bit22050Hz, Mono8bit44100Hz, Stereo8bit44100Hz, Mono16b'
16714:     +'it44100Hz, Stereo16bit44100Hz, Mono8bit48000Hz, Stereo8bit48000Hz, Mono16b'
16715:     +'it48000Hz, Stereo16bit48000Hz )');
16716:   PWaveFormatEx', 'record wFormatTag : word; nChannels: word; nSamplesPerSec: DWORD; '
16717:     +'nAvgBytesPerSec: DWORD; nBlockAlign: Word; wBitsPerSample: Word;  ecbSiz: Word; end');
16718:   tWaveFormatEx', 'PWaveFormatEx');
16719:   HMMIO , 'Integer');
16720:   TWaveDeviceFormats', 'set of TPCMFormat');
16721:   TWaveOutDeviceSupport', '( dsVolume, dsStereoVolume, dsPitch, ds'
16722:     +'PlaybackRate, dsPosition, dsAsynchronize, dsDirectSound )');
16723:   CL.AddtypeS('TWaveOutDeviceSupports', 'set of TWaveOutDeviceSupport');
16724:   TWaveOutOption', '( woSetVolume, woSetPitch, woSetPlaybackRate )');
16725:   TWaveOutOptions', 'set of TWaveOutOption');
16726:   TStreamOwnership2', '( soReference, soOwned )');
16727:   TWaveStreamState', '( wssReady, wssReading, wssWriting, wssWritingEx )');
16728:   // PRawWave', '^TRawWave // will not work');
16729:   TRawWave', 'record pData : TObject; dwSize : DWORD; end');
16730:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioError');
16731:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioSysError');
16732:   CL.AddClassN(CL.FindClass('TOBJECT'), 'EWaveAudioInvalidOperation');
16733:   TWaveAudioEvent', 'Procedure ( Sender : TObject )';
16734:   TWaveAudioGetFormatEvent', 'Procedure ( Sender : TObject; var PW'
16735:     +'aveFormat : PWaveFormatEx; var FreeIt : Boolean)');
16736:   TWaveAudioGetDataEvent', 'Function ( Sender : TObject; const Buf'
16737:     +'fer : TObject; BufferSize : DWORD; var NumLoops : DWORD ) : DWORD');
16738:   TWaveAudioGetDataPtrEvent', 'Function ( Sender : TObject; var Bu'
16739:     +'ffer : TObject; var NumLoops : DWORD; var FreeIt : Boolean ) : DWORD');
16740:   TWaveAudioDataReadyEvent', 'Procedure ( Sender : TObject; const '
16741:     +'Buffer : TObject; BufferSize : DWORD; var FreeIt : Boolean )';
16742:   TWaveAudioLevelEvent', 'Procedure ( Sender : TObject; Level : Integer )';
16743:   TWaveAudioFilterEvent', 'Procedure ( Sender : TObject; const Buffer:TObject; BufferSize:DWORD );
16744:   GetWaveAudioInfo(mmIO:HMMIO;var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16745:   CreateWaveAudio(mmIO : HMMIO; const pWaveFormat:PWaveFormatEx;var ckRIFF, ckData:TMMCKInfo):Bool;
16746:   CloseWaveAudio(mmIO : HMMIO; var ckRIFF, ckData : TMMCKInfo)');
16747:   GetStreamWaveAudioInfo(Stream:TStream; var pWaveFormat:PWaveFormatEx;var DataSize,DataOffset:DWORD):Bool;
16748:   CreateStreamWaveAudio(Stream: TStream;const pWaveFormat:PWaveFormatEx; var ckRIFF,ckData:TMMCKInfo):HMMIO;
16749:   OpenStreamWaveAudio( Stream : TStream );
16750:   CalcWaveBufferSize( const pWaveFormat : PWaveFormatEx; Duration : DWORD ) : DWORD');
16751:   GetAudioFormat( FormatTag : Word ) : String');
16752:   GetWaveAudioFormat( const pWaveFormat : PWaveFormatEx ) : String');
16753:   GetWaveAudioLength( const pWaveFormat : PWaveFormatEx; DataSize : DWORD ) : DWORD');
16754:   GetWaveAudioBitRate( const pWaveFormat : PWaveFormatEx ) : DWORD');
16755:   GetWaveAudioPeakLevel( const Data : TObject;DataSize:DWORD; const pWaveFormat:PWaveFormatEx) : Integer');
16756:   InvertWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16757:   SilenceWaveAudio( const Data : TObject; DataSize : DWORD;const pWaveFormat : PWaveFormatEx) : Boolean');
16758:   ChangeWaveAudioVolume(const Data: TObject;DataSize:DWORD;const pWaveFormat:PWaveFormatEx;Percent:Int):Bool;
16759:   MixWaveAudio( const RawWaves : TRawWave; Count : Integer; const pWaveFormat : PWaveFormatEx; Buffer :
16760:     TObject; BufferSize : DWORD ) : Boolean');

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16760: ConvertWaveFormat( const srcFormat : PWaveFormatEx; srcData : TObject; srcDataSize : DWORD; const
16761: dstFormat : PWaveFormatEx; var dstData : TObject; var dstDataSize : DWORD ) : Boolean');
16762: Procedure SetPCMFormat( const pWaveFormat : PWaveFormatEx; Channels : TPCMChannel; SamplesPerSec :
16763: TPCMSamplesPerSec; BitsPerSample : TPCMbitsPerSample)' );
16764: GetPCMFormat( const pWaveFormat : PWaveFormatEx ) : TPCMFormat');
16765: GetWaveDataPositionOffset( const pWaveFormat : PWaveFormatEx; Position : DWORD ) : DWORD');
16766: MS2Str( Milliseconds : DWORD; Fmt : TMS2StrFormat ) : String');
16767: WaitForSyncObject( SyncObject : THandle; Timeout : DWORD ) : DWORD');
16768: //mmioStreamProc( lpmmIOInfo : PMMIOInfo; uMsg, lParam1, lParam2 : DWORD ) : LRESULT');
16769: end;
16770: procedure SIRegister_NamedPipes(CL: TPSPascalCompiler);
16771: begin
16772:   'DEFAULT_PIPE_BUFFER_SIZE','LongInt').SetInt( 4096 );
16773:   CL.AddConstantN('DEFAULT_PIPE_TIMEOUT','LongInt').SetInt( 5000 );
16774:   'PIPE_NAMING_SCHEME','String').SetString( '\\%s\pipe\%s' );
16775:   'WAIT_ERROR','LongWord').SetUInt( DWORD( $FFFFFF ) );
16776:   'WAIT_OBJECT_1','LongInt').SetInt( WAIT_OBJECT_0 + 1 );
16777:   'STATUS_SUCCESS','LongWord').SetUInt( $00000000 );
16778:   'STATUS_BUFFER_OVERFLOW','LongWord').SetUInt( $80000005 );
16779:   CL.AddTypeS('TPipeDirection', '( pdir_Duplex, pdir_ClientToServer, pdir_ServerToClient )');
16780:   CL.AddTypeS('TPipeType', '( ptyp_BytByte, ptyp_MsgByte, ptyp_MsgMsg )');
16781:   CL.AddTypeS('TOverlappedResult', '( ov_Failed, ov_Pending, ov_MoreData, ov_Complete )');
16782:   SIRegister_TNamedPipe(CL);
16783:   SIRegister_TServePipe(CL);
16784:   SIRegister_TCClientPipe(CL);
16785:   CL.AddDelphiFunction('Function CalculateTimeout( aBasis : DWORD ) : DWORD');
16786:   Function HasOverlappedIoCompleted( const ov : OVERLAPPED ) : Boolean');
16787:   Function GetOverlappedPipeResult(aHandle:THandle;const ov:OVERLAPPED;var dwBytes:DWORD;bWait:Boolean) :
16788:   OverlappedResult;
16789:   Function GetStreamAsText( stm : TStream ) : string');
16790:   Procedure SetStreamAsText( const aTxt : string; stm : TStream ) );
16791: end;
16792: procedure SIRegister_DPUtills(CL: TPSPascalCompiler);
16793: begin
16794:   // CL.AddTypeS('pRGBTripleArray', '^TRGBTripleArray // will not work');
16795:   SIRegister_TThumbData(CL);
16796:   'PIC_BMP','LongInt').SetInt( 0 );
16797:   'PIC_JPG','LongInt').SetInt( 1 );
16798:   'THUMB_WIDTH','LongInt').SetInt( 60 );
16799:   'THUMB_HEIGHT','LongInt').SetInt( 60 );
16800:   Function IsEqualFile(Filename:string; Size:Integer; LastWriteTime : TDateTime) : Boolean');
16801:   Procedure GetFileInfo(Filename : string; var Size : Integer; var LastWriteTime : TDateTime)');
16802:   Function ReadBitmap( Filehandle : Integer; Width, Height : Integer ) : TBitmap');
16803:   Procedure WriteBitmap( Filehandle : Integer; bmp : TBitmap );
16804:   Function OpenPicture( fn : string; var tp : Integer ) : Integer');
16805:   Function ConvertPicture( pi : Integer; tp : Integer ) : TBitmap );
16806:   Function LoadPicture( fn : string; var w, h : Integer ) : TBitmap );
16807:   Function TurnBitmap( bmp : TBitmap; ang : Integer ) : TBitmap );
16808:   Function RotateBitmap( Bitmap : TBitmap; Direction : Integer ) : TBitmap );
16809:   Function StretchBitmap( Canvas : TCanvas; re : TRect; bmp : TBitmap ) : TRect );
16810:   Function ThumbBitmap( Bitmap : TBitmap; Width, Height : Integer ) : TBitmap );
16811:   Procedure ClearFrame( Canvas : TCanvas; Rect : TRect; Width, Height : Integer );
16812:   Procedure FindFiles( path, mask : string; items : TStringList );
16813:   Function LetFileName( s : string ) : string );
16814:   Function LetParentPath( path : string ) : string );
16815:   Function AddBackSlash( path : string ) : string );
16816:   Function CutBackSlash( path : string ) : string );
16817: end;
16818:
16819: procedure SIRegister_CommonTools(CL: TPSPascalCompiler);
16820: begin
16821:   //BYTES','LongInt').SetInt( 1 );
16822:   'KBYTES','LongInt').SetInt( 1024 );
16823:   'DBG_ALIVE','LongWord').SetUInt( Integer( $11BABE11 ) );
16824:   'DBG_DESTROYING','LongWord').SetUInt( Integer( $44FADE44 ) );
16825:   'DBG_GONE','LongWord').SetUInt( $99AC1D99 );
16826:   'SHELL_NS_MYCOMPUTER','String').SetString( ':::{2D04FE0-3AEA-1069-A2D8-08002B30309D}' );
16827:   SIRegister_MakeComServerMethodsPublic(CL);
16828:   CL.AddTypeS('TSomeFileInfo','( fi_DisplayType, fi_Application )');
16829:   Function IsFlagSet( dwTestForFlag, dwFlagSet : DWORD ) : Boolean );
16830:   Procedure TBSetFlag( const dwThisFlag : DWORD; var dwFlagSet : DWORD; aSet : Boolean );
16831:   Function TBGetTempFolder : string );
16832:   Function TBGetTempFile : string );
16833:   Function TBGetModuleFilename : string );
16834:   Function FormatModuleVersionInfo( const aFilename : string ) : string );
16835:   Function GetVersionInfoString( const aFile, aEntry : string; aLang : WORD ) : string );
16836:   Function TBGetFileSize( aFile : string; aMultipleOf : Integer ) : Integer );
16837:   Function FormatAttribString( aAttr : Integer ) : string );
16838:   Function GetSomeFileInfo( aFile : string; aWhatInfo : TSomeFileInfo ) : string );
16839:   Function ShellRecycle( aWnd : HWND; aFileOrFolder : string ) : Boolean );
16840:   Function IsDebuggerPresent : BOOL );
16841:   Function TBNotImplemented : HRESULT );
16842: end;
16843:
16844: procedure SIRegister_D2_VistaHelperU(CL: TPSPascalCompiler);
16845: begin

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16846: //CL.AddTypeS('OSVERSIONINFOEXA', '_OSVERSIONINFOEXA');
16847: //CL.AddTypeS('TOSVersionInfoExA', '_OSVERSIONINFOEXA');
16848: CL.AddTypeS('TOSVersionInfoEx', 'TOSVersionInfo');
16849: CL.AddTypeS('TDrivesProperty', 'array[1..26] of boolean;');
16850: //TDrivesProperty = array['A'..'Z'] of boolean;
16851: Function TBSetSystemTime( DateTime : TDateTime; DOW : word) : boolean';
16852: Function IsElevated : Boolean';
16853: Procedure CoCreateInstanceAsAdmin(aHWnd:HWND;const aClassID:GUID;const aIID:GUID;out aObj:TObject);
16854: CL.AddTypeS('TPasswordUsage', '( pu_None, pu_Default, pu_Defined )');
16855: Function TrimNetResource( UNC : string ) : string';
16856: Procedure GetFreeDrives( var FreeDrives : TDrivesProperty)');
16857: Procedure GetMappedDrives( var MappedDrives : TDrivesProperty)');
16858: Function MapDrive( UNCPATH : string; Drive : char; PasswordUsage : TPasswordUsage; Password : string;
UserUsage : TPasswordUsage; User : string; Comment : string ) : boolean';
16859: Function UnmapDrive( Drive : char; Force : boolean ) : boolean';
16860: Function TBIsWindowsVista : Boolean';
16861: Procedure SetVistaFonts( const AForm : TForm );
16862: Procedure SetVistaContentFonts( const AFont : TFont );
16863: Function GetProductType( var sType : String ) : Boolean';
16864: Function lstrcmp( lpString1, lpString2 : PChar ) : Integer';
16865: Function lstrcmpi( lpString1, lpString2 : PChar ) : Integer';
16866: Function lstrcpyn( lpString1, lpString2 : PChar; iMaxLength : Integer ) : PChar';
16867: Function lstrcpy( lpString1, lpString2 : PChar ) : PChar';
16868: Function lstrcat( lpString1, lpString2 : PChar ) : PChar';
16869: Function lstrlen( lpString : PChar ) : Integer';
16870: Function GetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD; var ReturnLength : DWORD ) : BOOL';
16871: Function SetTokenInformation( TokenHandle : THandle; TokenInformationClass : TTokenInformationClass;
TokenInformation : __Pointer; TokenInformationLength : DWORD ) : BOOL';
16872: end;
16873:
16874: procedure SIRegister_dwsXPlatform(CL: TPSPPascalCompiler);
16875: begin
16876:   'cLineTerminator', 'Char').SetString( #10);
16877:   'clineTerminators','String').SetString( #13#10);
16878:   'INVALID_HANDLE_VALUE','LongInt').SetInt( DWORD ( - 1 ) );
16879:   SIRegister_TFixedCriticalSection(CL);
16880:   SIRegister_TMultiReadSingleWrite(CL);
16881:   CL.AddDelphiFunction('Procedure SetDecimalSeparator( c : Char)');
16882:   Function GetDecimalSeparator : Char';
16883:   TCollectFileProgressEvent', 'Procedure ( const directory : String; var skipScan : Boolean)');
16884:   Procedure CollectFiles(const directory,fileMask:UnicodeString; list:TStrings;
recurseSubdirectories:Boolean; onProgress : TCollectFileProgressEvent)');
16885:   CL.AddTypeS('NativeInt', 'Integer');
16886:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16887:   CL.AddTypeS('NativeUInt', 'Cardinal');
16888:   //CL.AddTypeS('PNativeUInt', '^NativeUInt // will not work');
16889:   //CL.AddTypeS('TBytes', 'array of Byte');
16890:   CL.AddTypeS('RawByteString', 'UnicodeString');
16891:   //CL.AddTypeS('PNativeInt', '^NativeInt // will not work');
16892:   //CL.AddTypeS('PUInt64', '^UInt64 // will not work');
16893:   SIRegister_TPath(CL);
16894:   SIRegister_TFile(CL);
16895:   SIRegister_TdwsThread(CL);
16896:   Function GetSystemMilliseconds : Int64';
16897:   Function UTCDateTime : TDateTime';
16898:   Function UnicodeFormat( const fmt:UnicodeString; const args : array of const): UnicodeString';
16899:   Function UnicodeCompareStr( const S1, S2 : UnicodeString ) : Integer';
16900:   Function dwsAnsiCompareText( const S1, S2 : UnicodeString ) : Integer';
16901:   Function dwsAnsiCompareStr( const S1, S2 : UnicodeString ) : Integer';
16902:   Function UnicodeComparePChars( pl : PChar; n1 : Integer; p2 : PChar; n2 : Integer ) : Integer';
16903:   Function UnicodeComparePChars1( pl, p2 : PChar; n : Integer ) : Integer';
16904:   Function UnicodeLowerCase( const s : UnicodeString ) : UnicodeString';
16905:   Function UnicodeUpperCase( const s : UnicodeString ) : UnicodeString';
16906:   Function ASCIICompareText( const s1, s2 : UnicodeString ) : Integer';
16907:   Function ASCIISameText( const s1, s2 : UnicodeString ) : Boolean';
16908:   Function InterlockedIncrement( var val : Integer ) : Integer';
16909:   Function InterlockedDecrement( var val : Integer ) : Integer';
16910:   Procedure FastInterlockedIncrement( var val : Integer );
16911:   Procedure FastInterlockedDecrement( var val : Integer );
16912:   Function InterlockedExchangePointer( var target : __Pointer; val : __Pointer ) : __Pointer';
16913:   Procedure SetThreadName( const threadName : Char; threadID : Cardinal );
16914:   Procedure dwsOutputDebugString( const msg : UnicodeString );
16915:   Procedure WriteToOSEventLog(const logName,logCaption,logDetails:UnicodeString;const logRawData:String);
16916:   Function TryTextToFloat(const s:PChar;var value:Extended;const formatSettings:TFormatSettings):Bool;
16917:   Procedure VarCopy( out dest : Variant; const src : Variant );
16918:   Function VarToUnicodeStr( const v : Variant ) : UnicodeString';
16919:   Function LoadTextFromBuffer( const buf : TBytes ) : UnicodeString';
16920:   Function LoadTextFromStream( aStream : TStream ) : UnicodeString';
16921:   Function LoadTextFromFile( const fileName : UnicodeString ) : UnicodeString';
16922:   Procedure SaveTextToUTF8File( const fileName, text : UnicodeString );
16923:   Function OpenFileForSequentialReadOnly( const fileName : UnicodeString ) : THandle';
16924:   Function OpenFileForSequentialWriteOnly( const fileName : UnicodeString ) : THandle';
16925:   Procedure CloseFileHandle( hFile : THandle );
16926:   Function FileCopy(const existing, new : UnicodeString; failIfExists : Boolean):Boolean';
16927:   Function FileMove( const existing, new : UnicodeString ) : Boolean';
16928:   Function dwsFileDelete( const fileName : String ) : Boolean';
16929:   Function FileRename( const oldName, newName : String ) : Boolean';
16930:   Function dwsFileSize( const name : String ) : Int64';

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16931: Function dwsFileDialog( const name : String ) : TDateTime');
16932: Function DirectSet8087CW( newValue : Word ) : Word');
16933: Function DirectSetMXCSR( newValue : Word ) : Word');
16934: Function TtoObject( const T: byte ) : TObject');
16935: Function TtoPointer( const T: byte ) : __Pointer');
16936: Procedure GetMemForT(var T: byte; Size : integer)');
16937: Function FindDelimiter( const Delimiters, S : string; StartIdx : Integer ) : Integer');
16938: end;
16939:
16940: procedure SIRegister_AdSocket(CL: TPSPascalCompiler);
16941: begin
16942:   'IPstrSize','LongInt').SetInt( 15 );
16943:   'CM_APDSOCKETMESSAGE','LongWord').SetUInt( WM_USER + $0711 );
16944:   'CM_APDSOCKETQUIT','LongWord').SetUInt( WM_USER + $0712 );
16945:   'ADWSBASE','LongInt').SetInt( 9000 );
16946:   CL.AddTypeS('TCMADPSocketMessage', 'record Msg : Cardinal; Socket : TSocket; '
16947:     +'SelectEvent : Word; SelectError : Word; Result : Longint; end');
16948:   SIRegister_EApdSocketException(CL);
16949:   TWsMode', '( wsClient, wsServer )');
16950:   TWsNotifyEvent', 'Procedure ( Sender : TObject; Socket : TSocket )';
16951:   TWsSocketErrorEvent', 'Procedure ( Sender : TObject; Socket : TSocket; ErrCode : Integer )');
16952:   SIRegister_TApdSocket(CL);
16953: end;
16954:
16955: procedure SIRegister_AdPort(CL: TPSPascalCompiler);
16956: begin
16957:   SIRegister_TApdCustomComPort(CL);
16958:   SIRegister_TApdComPort(CL);
16959:   Function ComName( const ComNumber : Word ) : shortString');
16960:   Function SearchComPort( const C : TComponent ) : TApdCustomComPort');
16961: end;
16962:
16963: procedure SIRegister_PathFunc(CL: TPSPascalCompiler);
16964: begin
16965:   Function inAddBackslash( const S : String ) : String');
16966:   Function PathChangeExt( const Filename, Extension : String ) : String');
16967:   Function PathCharCompare( const S1, S2 : PChar ) : Boolean');
16968:   Function PathCharIsSlash( const C : Char ) : Boolean');
16969:   Function PathCharIsTrailByte( const S : String; const Index : Integer ) : Boolean');
16970:   Function PathCharLength( const S : String; const Index : Integer ) : Integer');
16971:   Function inPathCombine( const Dir, Filename : String ) : String');
16972:   Function PathCompare( const S1, S2 : String ) : Integer');
16973:   Function PathDrivePartLength( const Filename : String ) : Integer');
16974:   Function PathDrivePartLengthEx(const Filename:String;const IncludeSignificantSlash:Bool):Int;
16975:   Function inPathExpand( const Filename : String ) : String');
16976:   Function PathExtensionPos( const Filename : String ) : Integer');
16977:   Function PathExtractDir( const Filename : String ) : String');
16978:   Function PathExtractDrive( const Filename : String ) : String');
16979:   Function PathExtractExt( const Filename : String ) : String');
16980:   Function PathExtractName( const Filename : String ) : String');
16981:   Function PathExtractPath( const Filename : String ) : String');
16982:   Function PathIsRooted( const Filename : String ) : Boolean');
16983:   Function PathLastChar( const S : String ) : PChar');
16984:   Function PathLastDelimiter( const Delimiters, S : string ) : Integer');
16985:   Function PathLowercase( const S : String ) : String');
16986:   Function PathNormalizeSlashes( const S : String ) : String');
16987:   Function PathPathPartLength(const Filename:String;const IncludeSlashesAfterPath:Bool):Int;
16988:   Function PathPos( Ch : Char; const S : String ) : Integer');
16989:   Function PathStartsWith( const S, AStartsWith : String ) : Boolean');
16990:   Function PathStrNextChar( const S : PChar ) : PChar');
16991:   Function PathStrPrevChar( const Start, Current : PChar ) : PChar');
16992:   Function PathStrScan( const S : PChar; const C : Char ) : PChar');
16993:   Function inRemoveBackslash( const S : String ) : String');
16994:   Function RemoveBackslashUnlessRoot( const S : String ) : String');
16995:   Procedure PathFuncRunTests( const AlsoTestJapaneseDBCS : Boolean );
16996: end;
16997:
16998:
16999: procedure SIRegister_CmnFunc2(CL: TPSPascalCompiler);
17000: begin
17001:   NEWREGSTR_PATH_SETUP','String').SetString( 'Software\Microsoft\Windows\CurrentVersion' );
17002:   NEWREGSTR_PATH_EXPLORER','String').SetString( NEWREGSTR_PATH_SETUP + '\Explorer' );
17003:   NEWREGSTR_PATH_SPECIAL_FOLDERS','String').SetString(NEWREGSTR_PATH_EXPLORER + '\Shell Folders' );
17004:   NEWREGSTR_PATH_UNINSTALL','String').SetString( NEWREGSTR_PATH_SETUP + '\Uninstall' );
17005:   NEWREGSTR_VAL_UNINSTALLER_DISPLAYNAME','String').SetString( 'DisplayName' );
17006:   NEWREGSTR_VAL_UNINSTALLER_COMMANDLINE','String').SetString( 'UninstallString' );
17007:   KEY_WOW64_64KEY','LongWord').SetUInt( $0100 );
17008:   //CL.AddTypeS('TLeadByteSet', '^TLeadByteSet // will not work');
17009:   CL.AddTypeS('TLeadByteSet', 'set of Char');
17010:   SIRegister_TOneShotTimer(CL);
17011:   CL.AddTypeS('TRegView', '( rvDefault, rv32Bit, rv64Bit )');
17012:   'RegViews64Bit','LongInt').Value.ts32 := ord(rv64Bit);
17013:   Function NewfileExists( const Name : String ) : Boolean');
17014:   Function inDirExists( const Name : String ) : Boolean');
17015:   Function FileOrDirExists( const Name : String ) : Boolean');
17016:   Function IsDirectoryAndNotReparsePoint( const Name : String ) : Boolean');
17017:   Function GetIniString( const Section, Key : String; Default:String; const Filename:String): String');
17018:   Function GetIniInt(const Section,Key:String;const Default,Min,Max:Longint;const Filenam:String):Longint;
17019:   Function GetIniBool( const Section,Key:String; const Default:Boolean;const Filename:String ) : Boolean');

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

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17105: procedure SIRegister_ImageGrabber(CL: TPSPascalCompiler);
17106: begin
17107:   SIRegister_TImageGrabber(CL);
17108:   SIRegister_TCaptureDrivers(CL);
17109:   SIRegister_TCaptureDriver(CL);
17110: end;
17111:
17112: procedure SIRegister_SecurityFunc(CL: TPSPascalCompiler);
17113: begin
17114:   Function GrantPermissionOnFile( const DisableFsRedir : Boolean; Filename : String; const Entries : TGrantPermissionEntry; const EntryCount : Integer ) : Boolean';
17115:   Function GrantPermissionOnKey( const RegView : TRegView; const RootKey : HKEY; const Subkey : String; const Entries : TGrantPermissionEntry; const EntryCount : Integer ) : Boolean';
17116: end;
17117:
17118: procedure SIRegister_RedirFunc(CL: TPSPascalCompiler);
17119: begin
17120:   CL.AddTypeS('TPreviousFsRedirectionState', 'record DidDisable : Boolean; OldValue : __Pointer; end');
17121:   CL.AddDelphiFunction('Function AreFsRedirectionFunctionsAvailable : Boolean');
17122:   Function DisableFsRedirectionIf( const Disable : Boolean; var PreviousState : TPreviousFsRedirectionState ) : Boolean';
17123:   Procedure RestoreFsRedirection( const PreviousState : TPreviousFsRedirectionState );
17124:   Function CreateDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17125:   Function CreateProcessRedir( const DisableFsRedir : Boolean; const lpApplicationName : PChar; const lpCommandLine : PChar; const lpProcessAttributes, lpThreadAttributes : PSecurityAttributes; const bInheritHandles : BOOL );
17126:   +' const dwCreationFlags : DWORD; const lpEnvironment : Pointer; const lpCurrentDirectory : PChar; const lpStartupInfo : TStartupInfo; var lpProcessInformation : TProcessInformation ) : BOOL';
17127:   Function CopyFileRedir( const DisableFsRedir : Boolean; const ExistingFilename, NewFilename : String; const FailIfExists : BOOL ) : BOOL';
17128:   Function DeleteFileRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17129:   Function DirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17130:   Function FileOrDirExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17131:   Function FindFirstFileRedir( const DisableFsRedir : Boolean; const Filename : String; var FindData : TWin32FindData ) : THandle';
17132:   Function GetFileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String ) : DWORD';
17133:   Function GetShortNameRedir( const DisableFsRedir : Boolean; const Filename : String ) : String';
17134:   Function GetVersionNumbersRedir( const DisableFsRedir : Boolean; const Filename : String; var VersionNumbers : TFileVersionNumbers ) : Boolean';
17135:   Function IsDirectoryAndNotReparsePointRedir( const DisableFsRedir : Boolean; const Name : String ) : Bool;
17136:   Function MoveFileRedir( const DisableFsRedir : Boolean; const ExistingFilename, NewFilename : String ) : BOOL;
17137:   Function MoveFileExRedir( const DisableFsRedir : Boolean; const ExistingFilename, NewFilename : String; const Flags : DWORD ) : BOOL';
17138:   Function NewFileExistsRedir( const DisableFsRedir : Boolean; const Filename : String ) : Boolean';
17139:   Function RemoveDirectoryRedir( const DisableFsRedir : Boolean; const Filename : String ) : BOOL';
17140:   Function SetFileAttributesRedir( const DisableFsRedir : Boolean; const Filename : String; const Attrib : DWORD ) : BOOL;
17141:   Function SetNTFSCompressionRedir( const DisableFsRedir : Boolean; const FileOrDir : String; Compress : Boolean );
17142:   SIRegister_TFileRedir(CL);
17143:   SIRegister_TTextFileReaderRedir(CL);
17144:   SIRegister_TTextFileWriterRedir(CL);
17145: end;
17146:
17147: procedure SIRegister_Int64Em(CL: TPSPascalCompiler);
17148: begin
17149:   //CL.AddTypeS('LongWord', 'Cardinal');
17150:   CL.AddTypeS('Integer64', 'record Lo : LongWord; Hi : LongWord; end');
17151:   Function Compare64( const N1, N2 : Integer64 ) : Integer';
17152:   Procedure Dec64( var X : Integer64; N : LongWord );
17153:   Procedure Dec6464( var X : Integer64; const N : Integer64 );
17154:   Function Div64( var X : Integer64; const Divisor : LongWord ) : LongWord';
17155:   Function Inc64( var X : Integer64; N : LongWord ) : Boolean';
17156:   Function Inc6464( var X : Integer64; const N : Integer64 ) : Boolean';
17157:   Function Integer64ToStr( X : Integer64 ) : String';
17158:   Function Mod64( const X : Integer64; const Divisor : LongWord ) : LongWord';
17159:   Function Mul64( var X : Integer64; N : LongWord ) : Boolean';
17160:   Procedure Multiply32x32to64( N1, N2 : LongWord; var X : Integer64 );
17161:   Procedure Shr64( var X : Integer64; Count : LongWord );
17162:   Function StrToInteger64( const S : String; var X : Integer64 ) : Boolean';
17163: end;
17164:
17165: procedure SIRegister_InstFunc(CL: TPSPascalCompiler);
17166: begin
17167:   //CL.AddTypeS('PSimpleStringListArray', '^TSimpleStringListArray // will not work');
17168:   SIRegister_TSsimpleStringList(CL);
17169:   CL.AddTypeS('TExecWait', '( ewNoWait, ewWaitUntilTerminated, ewWaitUntilIdle )');
17170:   CL.AddTypeS('TDetermineDefaultLanguageResult', '( ddNoMatch, ddMatch, ddMatchLangParameter )');
17171:   CL.AddTypeS('TMD5Digest', 'array[0..15] of Byte;');
17172:   CL.AddTypeS('TSHA1Digest', 'array[0..19] of Byte;');
17173:   // TMD5Digest = array[0..15] of Byte;
17174:   // TSHA1Digest = array[0..19] of Byte;
17175:   Function CheckForMutexes( Mutexes : String ) : Boolean';
17176:   Function CreateTempDir : String';
17177:   Function DecrementSharedCount( const RegView : TRegView; const Filename : String ) : Boolean';
17178:   Procedure DelayDeleteFile( const DisableFsRedir : Boolean; const Filename : String; const MaxTries, FirstRetryDelayMS, SubsequentRetryDelayMS : Integer );
17179:   //Function DelTree( const DisableFsRedir : Boolean; const Path : String; const IsDir, DeleteFiles, DeleteSubdirsAlso, BreakOnError : Boolean; const DeleteDirProc : TDeleteDirProc; const DeleteFileProc : TDeleteFileProc; const Param : Pointer ) : Boolean';
17180:   //Function DetermineDefaultLanguage( const GetLanguageEntryProc : TGetLanguageEntryProc; const Method : TSetupLanguageDetectionMethod; const LangParameter : String; var ResultIndex : Integer ) : TDetermineDefaultLanguageResult';

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17181: //Procedure EnumFileReplaceOperationsFilenames(const EnumFunc:TEnumFROFilenamesProc;Param:Pointer);
17182: Function GenerateNonRandomUniqueFilename( Path : String; var Filename : String) : Boolean';
17183: Function GenerateUniqueName(const DisableFsRedir:Boolean;Path:String;const Extension:String):String;
17184: Function GetComputerNameString : String');
17185: Function GetFileDateTime(const DisableFsRedir:Boolean;const Filename:String;var DateTime:TFileTime):Bool;
17186: Function GetMD5OfFile( const DisableFsRedir : Boolean; const Filename : String) : TMD5Digest';
17187: Function GetMD5OfAnsiString( const S : AnsiString) : TMD5Digest');
17188: // Function GetMD5OfUnicodeString( const S : UnicodeString) : TMD5Digest';
17189: Function GetSHA1OfFile(const DisableFsRedir:Boolean;const Filename:String):TSHA1Digest';
17190: Function GetSHA1OfAnsiString( const S : AnsiString) : TSHA1Digest';
17191: // Function GetSHA1OfUnicodeString( const S : UnicodeString) : TSHA1Digest';
17192: Function GetRegRootKeyName( const RootKey : HKEY) : String');
17193: Function GetSpaceOnDisk(const DisableFsRedir:Boolean;const DriveRoot:String;var FreeBytes,
    TotBytes:Integer64):Bool;
17194: Function GetSpaceOnNearestMountPoint(const DisableFsRedir : Boolean; const StartDir : String; var
    FreeBytes, TotalBytes : Integer64) : Boolean';
17195: Function GetUserNamesString : String');
17196: Procedure IncrementSharedCount(const RegView:TRegView;const Filename:String;const AlreadyExisted:Boolean);
17197: //Function InstExec( const DisableFsRedir : Boolean; const Filename, Params : String; WorkingDir :
    String; const Wait:TExecWait;const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var
    ResultCode:Integer) : Boolean';
17198: // Function InstShellExec( const Verb, Filename, Params : String; WorkingDir : String; const Wait :
    TExecWait; const ShowCmd:Integer;const ProcessMessagesProc:TProcedure;var ResultCode:Integer):Boolean;
17199: Procedure InternalError( const Id : String)');
17200: Procedure InternalErrorFmt( const S : String; const Args : array of const)');
17201: Function IsDirEmpty( const DisableFsRedir : Boolean; const Dir : String) : Boolean';
17202: Function IsProtectedSystemFile(const DisableFsRedir:Boolean; const Filename:String) : Boolean';
17203: Function MakePendingFileRenameOperationsChecksum : TMD5Digest');
17204: Function ModifyPifFile( const Filename : String; const CloseOnExit : Boolean) : Boolean';
17205: Procedure RaiseFunctionFailedError( const FunctionName : String)');
17206: Procedure RaiseOleError( const FunctionName : String; const ResultCode : HRESULT)');
17207: Procedure RefreshEnvironment');
17208: Function ReplaceSystemDirWithSysWow64( const Path : String) : String');
17209: Function ReplaceSystemDirWithSysNative( Path : String; const IsWin64 : Boolean) : String');
17210: Procedure UnregisterFont( const FontName, FontFilename : String');
17211: Function RestartComputer : Boolean';
17212: Procedure RestartReplace( const DisableFsRedir : Boolean; TempFile, DestFile : String)');
17213: Procedure SplitNewParamStr( const Index : Integer; var AName, AValue : String)');
17214: Procedure Win32ErrorMsg( const FunctionName : String)');
17215: Procedure Win32ErrorMsgEx( const FunctionName : String; const ErrorCode : DWORD)');
17216: Function inForceDirectories( const DisableFsRedir:Boolean; Dir : String) : Boolean';
17217: //from Func2
17218: //Function inCreateShellLink( const Filename, Description, ShortcutTo, Parameters, WorkingDir : String,
    IconFilename : String; const IconIndex, ShowCmd : Integer; const HotKey : Word; FolderShortcut : Boolean;
    +'const AppUserModelID:String;const ExcludeFromShowInNewInstall,PreventPinning:Bool):String');
17219: Procedure RegisterTypeLibrary( const Filename : String)');
17220: //Procedure UnregisterTypeLibrary( const Filename : String)');
17221: //Function UnpinShellLink( const Filename : String) : Boolean');
17222: function getVersionInfoEx3: TOSVersionInfoEx;');
17223: Function GetVersionEx3(out verinfo: TOSVersionInfoEx): boolean;');
17224: procedure InitOle;');
17225: Function ExpandConst( const S : String) : String');
17226: Function ExpandConstEx( const S : String; const CustomConsts : array of String) : String');
17227: Function ExpandConstEx2(const S:String;const CustConsts:array of String;const
    DoExpandIndividualConst:Bool): String';
17228: Function ExpandConstIfPrefixed( const S : String) : String');
17229: Procedure LogWindowsVersion');
17230: Function EvalCheck( const Expression : String) : Boolean');
17231: end;
17232:
17233:
17234: procedure SIRegister_unitResourceDetails(CL: TPSPascalCompiler);
17235: begin
17236:   CL.AddClassN(CL.FindClass('TOBJECT'), 'TResourceDetails');
17237:   //CL.AddTypes('TResourceDetailsClass', 'class of TResourceDetails');
17238:   SIRegister_TResourceModule(CL);
17239:   SIRegister_TResourceDetails(CL);
17240:   SIRegister_TAnsResourceDetails(CL);
17241:   SIRegister_TUnicodeResourceDetails(CL);
17242:   Procedure RegisterResourceDetails( resourceClass : TResourceDetailsClass)');
17243:   Procedure UnRegisterResourceDetails( resourceClass : TResourceDetailsClass)');
17244:   Function ResourceWideCharToStr( var wstr : PWideChar; codePage : Integer) : string');
17245:   Procedure ResourceStrToWideChar( const s : string; var p : PWideChar; codePage : Integer)');
17246:   Function ResourceNameToInt( const s : string) : Integer');
17247:   Function CompareDetails( p1, p2 : TObject(Pointer)) : Integer');
17248: end;
17249:
17250:
17251:
17252: {A simple Oscilloscope using TWaveIn class.
17253: More info at http://www.delphiforfun.org/programs/oscilloscope.htm }
17254: uses
17255:   Forms,
17256:   U_Oscilloscope4 in 'U_Oscilloscope4.pas' {frmMain},
17257:   ufrmOscilloscope4 in 'ufrmOscilloscope4.pas' {frmOscilloscope: TFrame},
17258:   uColorFunctions in 'uColorFunctions.pas',
17259:   AMixer in 'AMixer.pas',
17260:   uSettings in 'uSettings.pas',
17261:   UWavein4 in 'UWavein4.pas',
17262:   USpectrum4 in 'U_Spectrum4.pas' {Form2},

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17263: ufrmInputControl4 in 'ufrmInputControl4.pas' {frmInputControl: TFrame};
17264:
17265:
17266: Functions_max hex in the box maxbox
17267: functionslist.txt
17268: FunctionsList1 3.9.9.86/88/91/92/94/95/96/98
17269:
17270: ****
17271: Procedure
17272: PROCEDURE SIZE 7507 7401 6792 6310 5971 4438 3797 3600 7881 7938
17273: Procedure *****Now the Procedure list*****
17274: Procedure ( ACol, ARow : Integer; Items : TStrings)
17275: Procedure ( Agg : TAggregate)
17276: Procedure ( ASender : TComponent; const AReplyStatus : TReplyStatus)
17277: Procedure ( ASender : TComponent; const AString : String; var AMsg : TIdMessage)
17278: Procedure ( ASender : TComponent; var AMsg : TIdMessage)
17279: Procedure ( ASender : TObject; const ABytes : Integer)
17280: Procedure ( ASender : TObject; VStream : TStream)
17281: Procedure ( AThread : TIdThread)
17282: Procedure ( AWebModule : TComponent)
17283: Procedure ( Column : TColumn)
17284: Procedure ( const AUsername : String; const APASSWORD : String; AAAuthenticationResult : Boolean)
17285: Procedure ( const iStart : integer; const sText : string)
17286: Procedure ( Control : TCustomTabControl; TabIndex : Integer; const Rect : TRect; Active : Boolean)
17287: Procedure ( Database : TDatabase; LoginParams : TStrings)
17288: Procedure ( DataSet:TCustomClientDataSet; E:EReconcileError; UpdateKind:TUpdateKind; var Action:TReconcileAction)
17289: Procedure ( DATASET : TDATASET)
17290: Procedure ( DataSet:TDataSet; E:EDatabaseError; UpdateKind:TUpdateKind; var UpdateAction: TUpdateAction)
17291: Procedure ( DATASET : TDATASET; E : TObject; var ACTION : TDATAACTION)
17292: Procedure ( DataSet : TDataSet; UpdateKind : TUpdateKind; var UpdateAction : TUpdateAction)
17293: Procedure ( DATASET : TDATASET; var ACCEPT : BOOLEAN)
17294: Procedure ( DBCtrlGrid : TDBCtrlGrid; Index : Integer)
17295: Procedure ( Done : Integer)
17296: Procedure ( HeaderControl : TCustomHeaderControl; Section : THeaderSection)
17297: Procedure ( HeaderControl:TCustomHeaderControl; Section:THeaderSection; const Rect:TRect; Pressed:Boolean)
17298: Procedure
  (HeaderControl:TCustomHeaderControl;Section:THeaderSection;Width:Integer;State:TSectionTrackState)
17299: Procedure ( HeaderControl : THeaderControl; Section : THeaderSection)
17300: Procedure ( HeaderControl:THeaderControl;Section: THeaderSection; const Rect:TRect; Pressed : Boolean)
17301: Procedure ( HeaderControl:THeaderControl;Section:THeaderSection;Width:Integer;State : TSectionTrackState)
17302: Procedure ( Sender: TCustomListView;const ARect: TRect;Stage:TCustomDrawStage;var DefaultDraw: Boolean)
17303: Procedure ( Sender : TCustomListView; const ARect : TRect; var DefaultDraw : Boolean)
17304: Procedure ( Sender : TCustomListView; Item : TListItem; Rect : TRect; State : TOwnerDrawState)
17305: Procedure ( Sender : TCustomTreeView; const ARect : TRect; var DefaultDraw : Boolean)
17306: Procedure ( SENDER : TFIELD; const TEXT : String)
17307: Procedure ( SENDER : TFIELD; var TEXT : STRING; DISPLAYTEXT : BOOLEAN)
17308: Procedure ( Sender : TIdTelnet; const Buffer : String)
17309: Procedure ( Sender : TIdTelnet; Status : TIdTelnetCommand)
17310: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; SELECTED : BOOLEAN)
17311: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17312: Procedure ( SENDER : TOBJECT; ACANVAS : TCANVAS; var WIDTH, HEIGHT : INTEGER)
17313: Procedure ( Sender : TObject; ACol, ARow : Longint; const Value : string)
17314: Procedure ( Sender : TObject; ACol, ARow : Longint; Rect : TRect; State : TGridDrawState)
17315: Procedure ( Sender : TObject; ACol, ARow : Longint; var CanSelect : Boolean)
17316: Procedure ( Sender : TObject; ACol, ARow : Longint; var Value : string)
17317: Procedure ( Sender : TObject; Button : TMPBtnType)
17318: Procedure ( Sender : TObject; Button : TMPBtnType; var DoDefault : Boolean)
17319: Procedure ( Sender : TObject; Button : TUDBtnType)
17320: Procedure ( Sender : TObject; Canvas : TCanvas; PageRect : TRect; var DoneDrawing : Boolean)
17321: Procedure ( Sender: TObject; ClientSocket: TServerClientWinSocket; var SocketThread : TServerClientThread)
17322: Procedure ( Sender : TObject; Column : TListColumn)
17323: Procedure ( Sender : TObject; Column : TListColumn; Point : TPoint)
17324: Procedure ( Sender : TObject; Connecting : Boolean)
17325: Procedure ( Sender:TObject;const PapSize:SmallInt;const Orient:TPrtOrient;const PageTy:TPageTy;var DoneDraw:Bool)
17326: Procedure ( Sender:TObject; const Rect : TRect; DataCol : Integer; Column: TColumn; State : TGridDrawState)
17327: Procedure ( Sender : TObject; const Rect : TRect; Field : TField; State : TGridDrawState)
17328: Procedure ( Sender: TObject; const UserString:string;var DateAndTime:TDateTime;var AllowChange:Boolean)
17329: Procedure ( Sender : TObject; E : Exception; var Handled : Boolean)
17330: Procedure ( Sender : TObject; FromIndex, ToIndex : Longint)
17331: Procedure ( Sender : TObject; FromSection, ToSection : THeaderSection; var AllowDrag : Boolean)
17332: Procedure ( Sender : TObject; Index : LongInt)
17333: Procedure ( Sender : TObject; Item : TListItem)
17334: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange)
17335: Procedure ( Sender : TObject; Item : TListItem; Change : TItemChange; var AllowChange : Boolean)
17336: Procedure ( Sender : TObject; Item : TListItem; Selected : Boolean)
17337: Procedure ( Sender : TObject; Item : TListItem; var AllowEdit : Boolean)
17338: Procedure ( Sender : TObject; Item : TListItem; var S : string)
17339: Procedure ( Sender : TObject; Item1, Item2 : TListItem; Data : Integer; var Compare : Integer)
17340: Procedure ( Sender : TObject; ModalResult : TModalResult; var CanClose : Boolean)
17341: Procedure ( Sender : TObject; Month : LongWord; var MonthBoldInfo : LongWord)
17342: Procedure ( Sender : TObject; NewTab : Integer; var AllowChange : Boolean)
17343: Procedure ( Sender : TObject; Node : TTreenode)
17344: Procedure ( Sender : TObject; Node : TTreenode; var AllowChange : Boolean)
17345: Procedure ( Sender : TObject; Node : TTreenode; var AllowCollapse : Boolean)
17346: Procedure ( Sender : TObject; Node : TTreenode; var AllowEdit : Boolean)
17347: Procedure ( Sender : TObject; Node : TTreenode; var AllowExpansion : Boolean)
17348: Procedure ( Sender : TObject; Node : TTreenode; var S : string)

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17349: Procedure ( Sender : TObject; Node1, Node2 : TTreeNode; Data : Integer; var Compare : Integer)
17350: Procedure ( Sender : TObject; NumObjects, NumChars : Integer; var SaveClipboard : Boolean)
17351: Procedure ( Sender : TObject; Rect : TRect)
17352: Procedure ( Sender : TObject; Request : TWebRequest; Response : TWebResponse; var Handled : Boolean)
17353: Procedure ( Sender : TObject; Shift : TShiftState; X, Y : Integer; Orient : TPageScrollerOrientation; var Delta : Int)
17354: Procedure ( Sender : TObject; Socket : TCustomWinSocket)
17355: Procedure ( Sender : TObject; Socket : TCustomWinSocket; ErrorEvent : TErrorEvent; var ErrorCode : Integer)
17356: Procedure ( Sender : TObject; Socket : TCustomWinSocket; SocketEvent : TSocketEvent)
17357: Procedure ( Sender : TObject; Socket : TSocket; var ClientSocket : TServerClientWinSocket)
17358: Procedure ( SENDER : TOBJECT; SOURCE : TMENUEITEM; REBUILD : BOOLEAN)
17359: Procedure ( Sender : TObject; StartPos, EndPos : Integer; var AllowChange : Boolean)
17360: Procedure ( Sender : TObject; TabCanvas : TCanvas; R : TRect; Index : Integer; Selected : Boolean)
17361: Procedure ( Sender : TObject; TabIndex : Integer; var ImageIndex : Integer)
17362: Procedure ( Sender : TObject; Thread : TServerClientThread)
17363: Procedure ( Sender : TObject; TickCount : Cardinal; var Reset : Boolean)
17364: Procedure ( Sender : TObject; Username, Password : string)
17365: Procedure ( Sender : TObject; var AllowChange : Boolean)
17366: Procedure ( Sender : TObject; var AllowChange : Boolean; NewValue : SmallInt; Direction : TUpDownDirection)
17367: Procedure ( Sender : TObject; var Caption : string; var Alignment : THTMLCaptionAlignment)
17368: Procedure ( Sender : TObject; var Continue : Boolean)
17369: Procedure ( Sender : TObject; var dest : string; var NumRedirect : Int; var Handled : bool; var VMETHOD : TIdHTTPMethod)
17370: Procedure ( Sender : TObject; var Username : string)
17371: Procedure ( Sender : TObject; Wnd : HWND)
17372: Procedure ( Sender : TToolbar; Button : TToolButton)
17373: Procedure ( Sender : TToolbar; const ARect : TRect; Stage : TCustomDrawStage; var DefaultDraw : Boolean)
17374: Procedure ( Sender : TToolBar; const ARect : TRect; var DefaultDraw : Boolean)
17375: Procedure ( Sender : TToolbar; Index : Integer; var Allow : Boolean)
17376: Procedure ( Sender : TToolbar; Index : Integer; var Button : TToolButton)
17377: Procedure ( StatusBar : TCustomStatusBar; Panel : TStatusPanel; const Rect : TRect)
17378: Procedure ( StatusBar : TStatusBar; Panel : TStatusPanel; const Rect : TRect)
17379: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var BindAllFields : Boolean; var TableName : WideString)
17380: Procedure ( var FieldNames : TWideStrings; SQL : WideString; var TableName : WideString)
17381: procedure (Sender: TObject)
17382: procedure (Sender: TObject; var Done: Boolean)
17383: procedure (Sender: TObject; var Key: Word; Shift: TShiftState);
17384: procedure _T(Name: tbtString; v: Variant);
17385: Procedure AbandonSignalHandler( RtlSigNum : Integer)
17386: Procedure Abort
17387: Procedure About1Click( Sender : TObject)
17388: Procedure Accept( Socket : TSocket)
17389: Procedure AESSymetricExecute(const plaintext, ciphertext, password: string)
17390: Procedure AESEncryptFile(const plaintext, ciphertext, password: string)
17391: Procedure AESDecryptFile(const replaintext, ciphertext, password: string)
17392: Procedure AESEncryptString(const plaintext : string; var ciphertext : string; password: string)
17393: Procedure AESDecryptString(var plaintext : string; const ciphertext : string; password: string)
17394: Procedure Add( Addend1, Addend2 : TMyBigInt)
17395: Procedure ADD( const AKEY, AVALUE : VARIANT)
17396: Procedure Add( const Key : string; Value : Integer)
17397: Procedure ADD( const NAME, FIELDS : String; OPTIONS : TINDEXOPTIONS)
17398: Procedure ADD( FIELD : TFIELD)
17399: Procedure ADD( ITEM : TMENUEITEM)
17400: Procedure ADD( POPUP : TPOPUPMENU)
17401: Procedure AddCharacters( xCharacters : TCharSet)
17402: Procedure AddDriver( const Name : string; List : TStrings)
17403: Procedure AddImages( Value : TCustomImageList)
17404: Procedure AddIndex( const Name, Fields : string; Options : TIndexOptions; const DescFields : string)
17405: Procedure AddLambdaTransitionTo( oState : TniRegularExpressionState)
17406: Procedure AddLoader( Loader : TBitmapLoader)
17407: Procedure ADDPARAM( VALUE : TPARAM)
17408: Procedure AddPassword( const Password : string)
17409: Procedure AddStandardAlias( const Name, Path, DefaultDriver : string)
17410: Procedure AddState( oState : TniRegularExpressionState)
17411: Procedure AddStrings( Strings : TStrings);
17412: procedure AddStrings(Strings: TStrings);
17413: Procedure AddStrings1( Strings : TWideStrings);
17414: Procedure AddStringTerm( var sString : string; const sTerm : string; const sSeparator : string)
17415: Procedure AddToRecentDocs( const Filename : string)
17416: Procedure AddTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset)
17417: Procedure AllFunctionsList1Click( Sender : TObject)
17418: procedure AllObjectsList1Click(Sender: TObject);
17419: Procedure Allocate( AAllocateBytes : Integer)
17420: procedure AllResourceList1Click(Sender: TObject);
17421: Procedure AnsiAppend( var dst : AnsiString; const src : AnsiString)
17422: Procedure AnsiAssign( var dst : AnsiString; var src : AnsiString)
17423: Procedure AnsiDelete( var dst : AnsiString; index, count : Integer)
17424: Procedure AnsiFree( var s : AnsiString)
17425: Procedure AnsiFromWide( var dst : AnsiString; const src : WideString)
17426: Procedure AnsiInsert( var dst : AnsiString; const src : AnsiString; index : Integer)
17427: Procedure AnsiSetLength( var dst : AnsiString; len : Integer)
17428: Procedure AnsiString_to_stream( const Value : ansistring; Destin : TStream)
17429: Procedure AntiFreeze;
17430: Procedure APPEND
17431: Procedure Append( const S : WideString)
17432: procedure Append(S: string);
17433: Procedure AppendByte( var VBytes : TIdBytes; AByte : byte)
17434: Procedure AppendBytes( var VBytes : TIdBytes; AAdd : TIdBytes)
17435: Procedure AppendChunk( Val : OleVariant)
17436: Procedure AppendData( const Data : OleVariant; HitEOF : Boolean)
17437: Procedure AppendStr( var Dest : string; S : string)

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17438: Procedure AppendString( var VBytes : TIddBytes; const AStr : String; ALength : Integer)
17439: Procedure ApplyRange
17440: procedure Arc(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17441: Procedure Arrange( Code : TListArrangement)
17442: procedure Assert(expr : Boolean; const msg: string);
17443: procedure Assert2(expr : Boolean; const msg: string);
17444: Procedure Assign( AList : TCustomBucketList)
17445: Procedure Assign( Other : TObject)
17446: Procedure Assign( Source : TDragObject)
17447: Procedure Assign( Source : TPersistent)
17448: Procedure Assign(Source: TPersistent)
17449: procedure Assign2(mystring, mypath: string);
17450: Procedure AssignCurValues( Source : TDataSet);
17451: Procedure AssignCurValues1( const CurValues : Variant);
17452: Procedure ASSIGNFIELD( FIELD : TFIELD)
17453: Procedure ASSIGNFIELDVALUE( FIELD : TFIELD; const VALUE : VARIANT)
17454: Procedure AssignFile(var F: Text; FileName: string)
17455: procedure AssignFile(var F: TextFile; FileName: string)
17456: procedure AssignFileRead(var mystring, myfilename: string);
17457: procedure AssignFileWrite(mystring, myfilename: string);
17458: Procedure AssignTo( Other : TObject)
17459: Procedure AssignValues( Value : TParameters)
17460: Procedure ASSIGNVALUES( VALUE : TPARAMS)
17461: Procedure AssociateExtension( IconPath, ProgramName, Path, Extension : string)
17462: Procedure Base64_to_stream( const Base64 : ansiString; Destin : TStream)
17463: Procedure Base64ToVar( NatData : Pointer; const SoapData : WideString);
17464: Procedure Base64ToVar1( var V : Variant; const SoapData : WideString);
17465: Procedure BcdAdd( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17466: Procedure BcdDivide( Dividend, Divisor : string; var bcdOut : TBcd);
17467: Procedure BcdDivide1( const Dividend, Divisor : TBcd; var bcdOut : TBcd);
17468: Procedure BcdDivide2( const Dividend : TBcd; const Divisor : Double; var bcdOut : TBcd);
17469: Procedure BcdDivide3( const Dividend : TBcd; const Divisor : string; var bcdOut : TBcd);
17470: Procedure BcdMultiply( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd);
17471: Procedure BcdMultiply1( const bcdIn : TBcd; const DoubleIn : Double; var bcdOut : TBcd);
17472: Procedure BcdMultiply2( const bcdIn : TBcd; const StringIn : string; var bcdOut : TBcd);
17473: Procedure BcdMultiply3( StringIn1, StringIn2 : string; var bcdOut : TBcd);
17474: Procedure BcdSubtract( const bcdIn1, bcdIn2 : TBcd; var bcdOut : TBcd)
17475: Procedure BcdToBytes( Value : TBcd; Bytes : array of byte)
17476: procedure Beep
17477: Procedure BeepOk
17478: Procedure BeepQuestion
17479: Procedure BeepHand
17480: Procedure BeepExclamation
17481: Procedure BeepAsterisk
17482: Procedure BeepInformation
17483: procedure BEGINDRAG(IMMEDIATE:BOOLEAN)
17484: Procedure BeginLayout
17485: Procedure BeginTimer( const Delay, Resolution : Cardinal)
17486: Procedure BeginUpdate
17487: procedure BeginUpdate;
17488: procedure BigScreen1Click(Sender: TObject);
17489: procedure BinToHex(Buffer: PChar; Text: PChar; BufSize: Integer);
17490: Procedure BitsToBooleans( const Bits : Byte; var B : TBooleanArray; AllBits : Boolean);
17491: Procedure BitsToBooleans1( const Bits : Word; var B : TBooleanArray; AllBits : Boolean);
17492: Procedure BitsToBooleans2( const Bits : Integer; var B : TBooleanArray; AllBits : Boolean);
17493: Procedure BitsToBooleans3( const Bits : Int64; var B : TBooleanArray; AllBits : Boolean);
17494: Procedure BoldDays(Days : array of LongWord; var MonthBoldInfo : LongWord)
17495: Procedure BooleansToBits( var Dest : Byte; const B : TBooleanArray);
17496: Procedure BooleansToBits1( var Dest : Word; const B : TBooleanArray);
17497: Procedure BooleansToBits2( var Dest : Integer; const B : TBooleanArray);
17498: Procedure BooleansToBits3( var Dest : Int64; const B : TBooleanArray);
17499: Procedure BreakPointMenuClick( Sender : TObject)
17500: procedure BRINGTOFRONT
17501: procedure BringToFront;
17502: Procedure btnBackClick( Sender : TObject)
17503: Procedure btnBrowseClick( Sender : TObject)
17504: Procedure BtnClick( Index : TNavigateBtn)
17505: Procedure btnLargeIconsClick( Sender : TObject)
17506: Procedure BuildAndSendRequest( AURI : TIddURI)
17507: Procedure BuildCache
17508: Procedure BurnMemory( var Buff, BuffLen : integer)
17509: Procedure BurnMemoryStream( Destructo : TMemoryStream)
17510: Procedure CalculateFirstSet
17511: Procedure Cancel
17512: procedure CancelDrag;
17513: Procedure CancelEdit
17514: procedure CANCELHINT
17515: Procedure CancelRange
17516: Procedure CancelUpdates
17517: Procedure CancelWriteBuffer
17518: Procedure Capture1(ADest:TStream;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool;
17519: Procedure Capture2( ADest : TStrings; const ADelim : string; const AIsRFCMessage : Boolean);
17520: Procedure Capture3(ADest:TStrings;out VLineCount:Integer;const ADelim:string;const AIsRFCMessage:Bool
17521: procedure CaptureScreenFormat(vname: string; vextension: string);
17522: procedure CaptureScreenPNG(vname: string);
17523: procedure CardinalsToI64(var I: Int64; const LowPart, HighPart: Cardinal);
17524: procedure CASCADE
17525: Procedure CastNativeToSoap(Info:PTypeInfo;var SoapData:WideString;NatData:Pointer;var IsNull: Boolean)
17526: Procedure CastSoapToVariant( SoapInfo : PTypeInfo; const SoapData : WideString; NatData : Pointer);

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17527: Procedure cbPathClick( Sender : TObject )
17528: Procedure cbPathKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState )
17529: Procedure cedebbugAfterExecute( Sender : TPSScript )
17530: Procedure cedebbugBreakpoint( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal )
17531: Procedure cedebbugCompile( Sender : TPSScript )
17532: Procedure cedebbugExecute( Sender : TPSScript )
17533: Procedure cedebbugIdle( Sender : TObject )
17534: Procedure cedebbugLineInfo( Sender : TObject; const FileName : String; Position, Row, Col : Cardinal )
17535: Procedure CenterHeight( const pc, pcParent : TControl )
17536: Procedure CenterDlg(AForm: TForm; MForm: TForm); { Zentriert Forms }
17537: Procedure CenterForm(AForm: TForm; MForm: TForm); { Zentriert Forms }
17538: Procedure Change
17539: procedure ChangeBiDiModeAlignment(var Alignment: TAlignment);
17540: Procedure Changed
17541: Procedure ChangeDir( const ADirName : string )
17542: Procedure ChangeDirUp
17543: Procedure ChangeEntryTransitions( oNewState : TniRegularExpressionState )
17544: Procedure ChangeLevelBy( Value : TChangeRange )
17545: Procedure ChDir( const s: string )
17546: Procedure Check(Status: Integer)
17547: Procedure CheckCommonControl( CC : Integer )
17548: Procedure CHECKFIELDNAME( const FIELDNAME : String )
17549: Procedure CHECKFIELDNAMES( const FIELDNAMES : String )
17550: Procedure CheckForDisconnect( const ARaiseExceptionIfDisconnected: boolean; const AIgnoreBuffer: bool )
17551: Procedure CheckForGracefulDisconnect( const ARaiseExceptionIfDisconnected : Boolean )
17552: Procedure CheckToken( T : Char )
17553: procedure CheckToken(t:char)
17554: Procedure CheckTokenSymbol( const S : string )
17555: procedure CheckTokenSymbol(s:string)
17556: Procedure CheckToolMenuDropdown( ToolButton : TToolButton )
17557: procedure Chord(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
17558: Procedure CIED65ToCIED50( var X, Y, Z : Extended )
17559: Procedure CIELABToBGR( const Source, Target : Pointer; const Count : Cardinal );
17560: procedure CipherFile1Click(Sender: TObject);
17561: Procedure Clear;
17562: Procedure Clear1Click( Sender : TObject )
17563: Procedure ClearColor( Color : TColor )
17564: Procedure CLEARITEM( AITEM : TMENUITEM )
17565: Procedure ClearMapping
17566: Procedure ClearSelection( KeepPrimary : Boolean )
17567: Procedure ClearWriteBuffer
17568: Procedure Click
17569: Procedure Close
17570: Procedure Close1Click( Sender : TObject )
17571: Procedure CloseDatabase( Database : TDatabase )
17572: Procedure CloseDataSets
17573: Procedure CloseDialog
17574: Procedure CloseFile(var F: Text );
17575: Procedure Closure
17576: Procedure CMYKToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17577: Procedure CMYKToBGR1( const C, M, Y, K, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal );
17578: Procedure CodeCompletionList1Click( Sender : TObject )
17579: Procedure ColEnter
17580: Procedure Collapse
17581: Procedure Collapse( Recurse : Boolean )
17582: Procedure ColorRGBToHLS( clrRGB : TCOLORREF; var Hue, Luminance, Saturation : Word )
17583: Procedure CommaSeparatedToStringList( AList : TStringList; const Value : string )
17584: Procedure CommitFreeAndNil( var Transaction : TDBXTransaction )
17585: Procedure Compile1Click( Sender : TObject )
17586: procedure ComponentCount1Click(Sender: TObject);
17587: Procedure Compress(azipfolder, azipfile: string)
17588: Procedure DeCompress(azipfolder, azipfile: string)
17589: Procedure XZip(azipfolder, azipfile: string)
17590: Procedure XUnZip(azipfolder, azipfile: string)
17591: Procedure Connect( const ATimeout : Integer )
17592: Procedure Connect( Socket : TSocket )
17593: procedure Console1Click(Sender: TObject);
17594: Procedure Continue
17595: Procedure ContinueCount( var Counter : TJclCounter )
17596: procedure CONTROLDESTROYED(CONTROL:TCONTROL)
17597: Procedure ConvertStreamFromAnsiToUTF8( Src, Dst : TStream; cp : integer )
17598: Procedure ConvertStreamFromUTF8ToAnsi( Src, Dst : TStream; cp : integer )
17599: Procedure ConvertImage(vsource, vddestination: string);
17600: // Ex. ConvertImage(Exepath+'my233.bmp.bmp',Exepath+'mypng111.png')
17601: Procedure ConvertBitmap(vsource, vddestination: string);
17602: Procedure ConvertToGray(Cnv: TCanvas);
17603: Procedure Copy( Buffer : TRecordBuffer; Dest : TBytes; Offset : Integer; Length : Integer )
17604: Procedure Copy( Buffer : TValueBuffer; Dest : TBytes; Offset : Integer; Count : Integer );
17605: Procedure Copy1( Source : TBytes; Offset : Integer; Buffer : TValueBuffer; Count : Integer );
17606: Procedure CopyBytesToHostLongWord(const ASource:TIdBytes;const ASourceIndex:Integer;var VDest:LongWord)
17607: Procedure CopyBytesToHostWord( const ASource : TIdBytes; const ASrcIndex : Integer; var VDest : Word )
17608: Procedure CopyFrom( mbCopy : TMyBigInt )
17609: Procedure CopyMemoryStream( Source, Destination : TMemoryStream )
17610: procedure CopyRect(const Dest: TRect; Canvas: TCanvas; const Source: TRect );
17611: Procedure CopyTidByteArray( const ASource : array of Byte; const ASrcIndex : Integer; var VDest : array of Byte; const ADestIndex : Integer; const ALen : Integer )
17612: Procedure CopyTidBytes(const ASrc:TIdBytes;const ASrcIdx:Int;var VDest:TIdBytes;const ADestIdx:Int;const ALen:Int )
17613: Procedure CopyTidCardinal( const ASource : Cardinal; var VDest : TIdBytes; const ADestIndex : Integer )

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17614: Procedure CopyTidInt64( const ASource : Int64; var VDest : TIdBytes; const ADestIndex : Integer)
17615: Procedure CopyTidIPV6Address(const ASource:TIdIPv6Address; var VDest: TIdBytes; const ADestIndex : Integer)
17616: Procedure CopyTidLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex : Integer)
17617: Procedure CopyTidNetworkLongWord( const ASource : LongWord; var VDest : TIdBytes; const ADestIndex:Integer)
17618: Procedure CopyTidNetworkWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17619: Procedure CopyTidString(const ASource:String;var VDest:TIdBytes;const ADestIndex:Integer;ALength: Integer)
17620: Procedure CopyTidWord( const ASource : Word; var VDest : TIdBytes; const ADestIndex : Integer)
17621: Procedure CopyToClipboard
17622: Procedure CountParts
17623: Procedure CreateDataSet
17624: Procedure CreateEmptyFile( const FileName : string)
17625: Procedure CreateFileFromString( const FileName, Data : string)
17626: Procedure CreateFromDelta( Source : TPacketDataSet)
17627: procedure CREATEHANDLE
17628: Procedure CreatePipeStreams(var InPipe:TInputPipeStream;var OutPipe:TOutputPipeStream;SecAttr:PSecurityAttributes; BufSize:Longint);
17629: Procedure CreateProcAsUser( const UserDomain, UserName, PassWord, CommandLine : string)
17630: Procedure CreateProcAsUserEx(const UserDomain,UserName,Password,CommandLine:string;const Environment:PChar)
17631: Procedure CreateTable
17632: Procedure CreateUDLFile( const FileName, ProviderName, DataSourceName : WideString)
17633: procedure CSyntax1Click(Sender: TObject);
17634: Procedure CurrencyToComp( Value : Currency; var Result : Comp)
17635: Procedure CURSORPOSCHANGED
17636: procedure CutFirstDirectory(var S: String)
17637: Procedure DataBaseError(const Message: string)
17638: Procedure DateTimeToString( var Result : string; Format : string; DateTime : TDateTime);
17639: procedure DateTimeToString(var Result: string; const Format: string; DateTime: TDateTime)
17640: Procedure DateTimeToSystemTime( DateTime : TDateTime; var SystemTime : TSystemTime)
17641: procedure DateTimeToSystemTime(const DateTime: TDateTime; var SystemTime: TSystemTime);
17642: Procedure DBIError(errorCode: Integer)
17643: Procedure DebugOutput( const AText : string)
17644: Procedure DebugRun1Click( Sender : TObject)
17645: procedure Dec;
17646: Procedure DecodeDate( DateTime : TDateTime; var Year, Month, Day : Word)
17647: procedure DecodeDate(const DateTime: TDateTime; var Year, Month, Day: Word);
17648: Procedure DecodeDateDay( const AValue : TDateTime; out AYear, ADayOfYear : Word)
17649: Procedure DecodeDateMonthWeek(const AValue:TDateTime;out AYear, AMonth,AWeekofMonth,ADayOfWeek : Word)
17650: Procedure DecodeDateTime(const AValue:TDateTime;out AYear ,AMonth,ADay,AHour,AMin,ASec,AMillSec:Word)
17651: Procedure DecodeDateWeek( const AValue : TDateTime; out AYear, AWeekOfYear, ADayOfWeek : Word)
17652: Procedure DecodeDayOfWeekInMonth(const AValue:TDateTime;out AYear,AMonth,ANthDayOfWeek,ADayOfWeek:Word)
17653: Procedure DecodeTime( DateTime : TDateTime; var Hour, Min, Sec, MSec : Word)
17654: procedure DecodeTime(const DateTime: TDateTime; var Hour, Min, Sec, MSec: Word);
17655: Procedure Decompile1Click( Sender : TObject)
17656: Procedure DefaultDrawColumnCell(const Rect : TRect; DataCol:Integer;Column:TColumn;State:TGridDrawState)
17657: Procedure DefaultDrawDataCell( const Rect : TRect; Field : TField; State : TGridDrawState)
17658: Procedure DeferLayout
17659: Procedure defFileRead
17660: procedure DEFOCUSCONTROL(CONTROL:TWINCONTROL; REMOVING:BOOLEAN)
17661: Procedure DelayMicroseconds( const MicroSeconds : Integer)
17662: Procedure Delete
17663: Procedure Delete( const Afilename : string)
17664: Procedure Delete( const Index : Integer)
17665: Procedure DELETE( INDEX : INTEGER)
17666: Procedure Delete( Index : LongInt)
17667: Procedure Delete( Node : TTreeNode)
17668: procedure Delete(var s: AnyString; ifrom, icount: Longint);
17669: Procedure DeleteAlias( const Name : string)
17670: Procedure DeleteDriver( const Name : string)
17671: Procedure DeleteIndex( const Name : string)
17672: Procedure DeleteKey( const Section, Ident : String)
17673: Procedure DeleteRecords
17674: Procedure DeleteRecords( AffectRecords : TAffectRecords)
17675: Procedure DeleteString( var pStr : String; const pDelStr : string)
17676: Procedure DeleteTable
17677: procedure DelphiSite1Click(Sender: TObject);
17678: Procedure Deselect
17679: Procedure Deselect( Node : TTreeNode)
17680: procedure DestroyComponents
17681: Procedure DestroyHandle
17682: Procedure Diff( var X : array of Double)
17683: procedure Diff(var X: array of Double);
17684: Procedure DirCreate( const DirectoryName : String)');
17685: procedure DISABLEALIGN
17686: Procedure DisableConstraints
17687: Procedure Disconnect
17688: Procedure Disconnect( Socket : TSocket)
17689: Procedure Dispose
17690: procedure Dispose(P: PChar)
17691: Procedure DivMod( Dividend : Integer; Divisor : Word; var Result, Remainder : Word)
17692: Procedure DoKey( Key : TDBCtrlGridKey)
17693: Procedure DomToTree(anXmlNode: IXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17694: Procedure DomToTreeJ(anXmlNode: TJvXMLNode; aTreeNode: TTreeNode; aTreeView: TTreeView);
17695: Procedure Dormant
17696: Procedure DoubleToBcd1( const AValue : Double; var bcd : TBcd);
17697: Procedure DoubleToBytes( Value : Double; Bytes : array of byte)
17698: Procedure DoubleToComp( Value : Double; var Result : Comp)
17699: Procedure Draw( Canvas : TCanvas; X, Y, Index : Integer; Enabled : Boolean);
17700: procedure Draw(X, Y: Integer; Graphic: TGraphic);
17701: Procedure Draw1(Canvas:TCanvas; X,Y, Index:Int;ADrawingStyle:TDrawingStyle;AImageType:TImageType;Enabled:Bool);

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17702: Procedure DrawArrow( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17703: Procedure DrawCheck( ACanvas : TCanvas; Location : TPoint; Size : Integer; Shadow : Boolean)
17704: Procedure DrawChevron( ACanvas : TCanvas; Direction : TScrollDirection; Location : TPoint; Size : Integer)
17705: Procedure DrawColumnCell( const Rect : TRect; DataCol : Integer; Column : TColumn; State : TGridDrawState)
17706: procedure DrawFocusRect(const Rect: TRect);
17707: Procedure DrawHBITToTBitmap( HDIB : THandle; Bitmap : TBitmap)
17708: Procedure DRAWMENUTEME( MENUITEM : TMENUITEM; ACANVAS : TCANVAS; ARECT : TRECT; STATE : TOWNERDRAWSTATE)
17709: Procedure DrawOverlay(Canvas:TCanvas;X,Y:Integer;ImageIndex:Integer;Overlay:TOverlay;Enabled:Boolean);
17710: Procedure DrawOverlay1(Canvas:TCanvas; X,Y:Int; ImageIndex:Int; Overlay : TOverlay; ADrawingStyle :
TDrawingStyle; AImageType : TImageType; Enabled : Boolean);
17711: procedure drawPlot(vPoints: TPointArray; cFrm: TForm; vcolor: integer);
17712: Procedure DrawPolyLine( const Canvas : TCanvas; var Points : TPointArray; const ClipRect : TRect)
17713: Procedure DropConnections
17714: Procedure DropDown
17715: Procedure DumpDescription( oStrings : TStrings)
17716: Procedure DumpStateTable( oStrings : TStrings)
17717: Procedure EDIT
17718: Procedure EditButtonClick
17719: Procedure EditFont1Click( Sender : TObject)
17720: procedure Ellipse(X1, Y1, X2, Y2: Integer);
17721: Procedure Ellipse1( const Rect : TRect);
17722: Procedure EMMS
17723: Procedure Encode( ADest : TStream)
17724: procedure ENDDRAG(DROP:BOOLEAN)
17725: Procedure EndEdit( Cancel : Boolean)
17726: Procedure EndTimer
17727: Procedure EndUpdate
17728: Procedure EraseSection( const Section : string)
17729: Procedure Error( const Ident : string)
17730: procedure Error(Ident:Integer)
17731: Procedure ErrorFmt( const Ident : string; const Args : array of const)
17732: Procedure ErrorStr( const Message : string)
17733: procedure ErrorStr(Message:String)
17734: Procedure Exchange( Index1, Index2 : Integer)
17735: procedure Exchange(Index1, Index2: Integer);
17736: Procedure Exec( FileName, Parameters, Directory : string)
17737: Procedure ExecProc
17738: Procedure ExecSQL( UpdateKind : TUpdateKind)
17739: Procedure Execute
17740: Procedure Execute( const CommandText : WideString; var Params, OwnerData : OleVariant)
17741: Procedure ExecuteAndWait( FileName : string; Visibility : Integer)
17742: Procedure ExecuteCommand(executeFile, paramstring: string)
17743: Procedure ExecuteShell(executeFile, paramstring: string)
17744: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
17745: Procedure ExitThread(ExitCode: Integer); stdcall;
17746: Procedure ExitProcess(ExitCode: Integer); stdcall;
17747: Procedure Expand( AUserName : String; AResults : TStrings)
17748: Procedure Expand( Recurse : Boolean)
17749: Procedure ExportClipboard1Click( Sender : TObject)
17750: Procedure ExportDataSetToExcel( DataSet : TDataSet; OnExportProgress : TOnExportProgress)
17751: Procedure ExtractContentFields( Strings : TStrings)
17752: Procedure ExtractCookieFields( Strings : TStrings)
17753: Procedure ExtractFields( Separators,WhiteSpace : TSysCharSet; Content : PChar; Strings : TStrings)
17754: Procedure ExtractHeaderFields(Separ,
WhiteSpace:TSysChSet;Cont:PChar;Strings:TStrings;Decode:Bool;StripQuots:Bool)
17755: Procedure ExtractHTTPFields(Separators,WhiteSpace:
TSysCharSet;Content:PChar;Strings:TStrings;StripQuotes:Bool)
17756: Procedure ExtractQueryFields( Strings : TStrings)
17757: Procedure FastDegToGrad
17758: Procedure FastDegToRad
17759: Procedure FastGradToDeg
17760: Procedure FastGradToRad
17761: Procedure FastRadToDeg
17762: Procedure FastRadToGrad
17763: Procedure FileClose( Handle : Integer)
17764: Procedure FileClose(handle: integer)
17765: procedure FilesFromWildcard( Dir, Mask:string;var Files:TStringList;Subdirs>ShowDirs,Multitasking:Bool)
17766: Procedure Filestructure( AStructure : TidFTPDataStructure)
17767: Procedure FillByte2(var X: Byte ; count: integer; value: byte)
17768: Procedure FillBytes( var VBytes : TidBytes; const ACount : Integer; const AValue : Byte)
17769: Procedure FillChar( Buffer : TRecordBuffer; Length : Integer; value : Byte)
17770: Procedure FillChar2(var X: PChar ; count: integer; value: char)
17771: Procedure FillCharS(var p: string; count: integer; value: char); //fix3.8
17772: Procedure FillIPList
17773: procedure FillRect(const Rect: TRect);
17774: Procedure FillTStrings( Astrings : TStrings)
17775: Procedure FilterOnBookmarks( Bookmarks : array of const)
17776: procedure FinalizePackage(Module: HMODULE)
17777: procedure FindClose;
17778: procedure FindClose2(var F: TSearchRec)
17779: Procedure FindMatches( const sString : string; xNotify : TniRegularExpressionMatchFoundEvent );
17780: Procedure FindMatches1(const sString:string;iStart:integer;xNotify:TniRegularExpressionMatchFoundEvent );
17781: Procedure FindNearest( const KeyValues : array of const)
17782: Procedure FinishContext
17783: Procedure FIRST
17784: Procedure FloatToDegMinSec( const X : Float; var Degs, Mins, Secs : Float)
17785: Procedure FloatToDecimal(var Result:TFloatRec;const Value:extend;ValueType:TFloatValue;Precis,Decs:Int);
17786: Procedure FloodFill( X, Y : Integer; Color : TColor; FillStyle : TFillStyle)
17787: Procedure FlushSchemaCache( const TableName : string)

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17788: procedure FmtStr(var Result: string; const Format: string; const Args: array of const)
17789: procedure FOCUSCONTROL(CONTROL:TWINCONTROL)
17790: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17791: Procedure FormActivate( Sender : TObject)
17792: procedure FormatLn(const format: String; const args: array of const); //alias
17793: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
17794: Procedure FormCreate( Sender : TObject)
17795: Procedure FormDestroy( Sender : TObject)
17796: Procedure FormKeyPress( Sender : TObject; var Key : Char)
17797: procedure FormOutput1Click(Sender: TObject);
17798: Procedure FormToHtml( Form : TForm; Path : string)
17799: procedure FrameRect(const Rect: TRect);
17800: Procedure Frame3D(Canvas:TCanvas; var Rect:TRect; TopColor,BottomColor:TColor; Width : Integer)
17801: Procedure NotebookHandlesNeeded( Notebook : TNNotebook)
17802: Procedure Free( Buffer : TRecordBuffer)
17803: Procedure Free( Buffer : TValueBuffer)
17804: Procedure Free;
17805: Procedure FreeAndNil(var Obj:TObject)
17806: Procedure FreeImage
17807: procedure FreeMem(P: PChar; Size: Integer)
17808: Procedure FreeTreeData( Tree : TUpdateTree)
17809: Procedure Frexp( const X : Extended; var Mantissa : Extended; var Exponent : Integer)
17810: Procedure FullCollapse
17811: Procedure FullExpand
17812: Procedure GenerateDBP(sl: TStrings; var DPB: string; var DPBLength: Short); //InterBase
17813: Procedure GenerateTPB(sl: TStrings; var TPB: string; var TPBLength: Short);
17814: Procedure OUTPUTXML( SQLOBJECT : TIBSQL; OUTPUTOBJECT : TIBOUTPUTXML)
17815: Procedure Get1( AURL : string; const AResponseContent : TStream);
17816: Procedure Get1( const ASourcefile : string; ADest : TStream; AResume : Boolean);
17817: Procedure Get2(const ASourceFile,ADestFile: string;const ACanOverwrite: boolean; AResume: Boolean);
17818: Procedure GetAliasNames( List : TStrings)
17819: Procedure GetAliasParams( const AliasName : string; List : TStrings)
17820: Procedure GetApplicationsRunning( Strings : TStrings)
17821: Procedure getBox(aURL, extension: string);
17822: Procedure GetCommandTypes( List : TWideStrings)
17823: Procedure GetConfigParams( const Path, Section : string; List : TStrings)
17824: Procedure GetConnectionNames( List : TStrings; Driver : string; DesignMode : Boolean)
17825: Procedure GetConvFamilies( out AFamilies : TConvFamilyArray)
17826: Procedure GetConvTypes( const AFamily : TConvFamily; out ATypes : TConvTypeArray)
17827: Procedure GetDatabaseNames( List : TStrings)
17828: Procedure GetDataPacket( DataSet : TDataSet; var RecsOut : Integer; out Data : OleVariant)
17829: Procedure GetDIBSizes(Bitmap: HBITMAP; var InfoHeaderSize: longWORD; var ImageSize : longWORD)
17830: Procedure GetDir(d: byte; var s: string)
17831: Procedure GetDirList( const Search : string; List : TStrings; Recursive : Boolean)
17832: Procedure GetDriverNames( List : TStrings)
17833: Procedure GetDriverNames( List : TStrings; DesignMode : Boolean)
17834: Procedure GetDriverParams( const DriverName : string; List : TStrings)
17835: Procedure GetEmails1Click( Sender : TObject)
17836: Procedure getEnvironmentInfo;
17837: Function getEnvironmentString: string;
17838: Procedure GetFieldNames( const DatabaseName, TableName : string; List : TStrings)
17839: Procedure GetFieldNames( const TableName : string; List : TStrings)
17840: Procedure GetFieldNames( const TableName : string; List : TStrings);
17841: Procedure GetFieldNames( const TableName : WideString; List : TWideStrings);
17842: Procedure GETFIELDNAMES( LIST : TSTRINGS)
17843: Procedure GetFieldNames1( const TableName : string; List : TStrings);
17844: Procedure GetFieldNames1( const TableName : string; SchemaName : string; List : TStrings);
17845: Procedure GetFieldNames2( const TableName : WideString; SchemaName : WideString; List : TWideStrings);
17846: Procedure GetFieldNames3( const TableName : WideString; List : TWideStrings);
17847: Procedure GetFileAttributeList( const Items : TStrings; const Attr : Integer)
17848: Procedure GetFileAttributeListEx( const Items : TStrings; const Attr : Integer)
17849: Procedure GetFTMBcd( Buffer : TRecordBuffer; var value : TBcd)
17850: Procedure GetFormatSettings
17851: Procedure GetFromDIB( var DIB : TBitmapInfo)
17852: Procedure GetFromHDI( HDIB : HBitmap)
17853: Procedure GetIcon( Index : Integer; Image : TIcon);
17854: Procedure GetIcon1(Index : Integer; Image:TIcon; ADrawingStyle:TDrawingStyle; AImageType:TImageType);
17855: Procedure GetIndexInfo( IndexName : string)
17856: Procedure GetIndexNames( const TableName, SchemaName : string; List : TStrings);
17857: Procedure GetIndexNames( List : TStrings)
17858: Procedure GetIndexNames1( const TableName : WideString; List : TWideStrings);
17859: Procedure GetIndexNames2( const TableName, SchemaName : WideString; List : TWideStrings);
17860: Procedure GetIndexNames4( const TableName : string; List : TStrings);
17861: Procedure GetInternalResponse
17862: Procedure GETITEMNAMES( LIST : TSTRINGS)
17863: procedure GetMem(P: PChar; Size: Integer)
17864: Procedure GETOLE2ACCELERATORTABLE(var ACCELTABLE:HACCEL;var ACCELCOUNT:INTEGER;GROUPS:array of INTEGER)
17865: procedure GetPackageDescription(ModuleName: PChar): string)
17866: Procedure GetPackageName( List : TStrings);
17867: Procedure GetPackageNames1( List : TWideStrings);
17868: Procedure GetParamList( List : TList; const ParamNames : WideString)
17869: Procedure GetProcedureNames( List : TStrings);
17870: Procedure GetProcedureNames( List : TWideStrings);
17871: Procedure GetProcedureNames1( const PackageName : string; List : TStrings);
17872: Procedure GetProcedureNames1( List : TStrings);
17873: Procedure GetProcedureNames2( const PackageName, SchemaName : string; List : TStrings);
17874: Procedure GetProcedureNames3( List : TWideStrings);
17875: Procedure GetProcedureNames4( const PackageName : WideString; List : TWideStrings);
17876: Procedure GetProcedureNames5( const PackageName, SchemaName : WideString; List : TWideStrings);

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17877: Procedure GetProcedureParams( ProcedureName : WideString; List : TList);
17878: Procedure GetProcedureParams1( ProcedureName, PackageName : WideString; List : TList);
17879: Procedure GetProcedureParams2( ProcedureName, PackageName, SchemaName : Widestring; List : TList);
17880: Procedure GetProviderNames( Names : TWideStrings);
17881: Procedure GetProviderNames( Proc : TGetStrProc);
17882: Procedure GetProviderNames1( Names : TStrings);
17883: procedure GetQrCode2(Width,Height:Word; Correct_Level: string; const Data:string; aPath: string);
17884: procedure GetQrCode3(Width,Height:Word;Correct_Level:string;const Data:string;aPath:string); //no open image
17885: Function GetQrCode4(Width,Height:Word;Correct_Level:string; const
Data:string;aFormat:string):TLinearBitmap;
17886: Procedure GetRGBValue( const Color : TColor; out Red, Green, Blue : Byte);
17887: Procedure GetSchemaNames( List : TStrings);
17888: Procedure GetSchemaNames1( List : TWideStrings);
17889: Procedure getScriptandRunAsk;
17890: Procedure getScriptandRun(ascript: string);
17891: Procedure getScript(ascript: string); //alias
17892: Procedure getWebScript(ascript: string); //alias
17893: Procedure GetSessionNames( List : TStrings);
17894: Procedure GetStoredProcNames( const DatabaseName : string; List : TStrings);
17895: Procedure GetStrings( List : TStrings);
17896: Procedure GetSystemTime; stdcall;
17897: Procedure GetTableNames( const DatabaseName, Pattern:string;Extensions, SystemTables:Boolean;List:TStrings);
17898: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17899: Procedure GetTableNames( List : TStrings; SystemTables : Boolean);
17900: Procedure GetTableNames( List : TWideStrings; SystemTables : Boolean);
17901: Procedure GetTableNames1( List : TStrings; SchemaName : WideString; SystemTables : Boolean);
17902: Procedure GetTableNames1( List : TStrings; SystemTables : Boolean);
17903: Procedure GetTableNames2( List : TWideStrings; SchemaName : WideString; SystemTables : Boolean);
17904: Procedure GetTransitionsOn( cChar : char; oStateList : TList);
17905: Procedure GetVisibleWindows( List : TStrings);
17906: Procedure GoBegin;
17907: Procedure GotoCurrent( DataSet : TCustomClientDataSet);
17908: Procedure GotoCurrent( Table : TTable);
17909: procedure GotoEnd1Click(Sender: TObject);
17910: Procedure GotoNearest;
17911: Procedure GradientFillCanvas(const ACanvas: TCanvas; const AStartCol, AEndCol: TColor; const ARect: TRect; const
Direction: TGradientDirection);
17912: Procedure HandleException( E : Exception; var Handled : Boolean);
17913: procedure HANDLEMESSAGE;
17914: procedure HandleNeeded;
17915: Procedure Head( AURL : string);
17916: Procedure Help( var AHelpContents : TStringList; ACommand : String);
17917: Procedure HexToBinary( Stream : TStream);
17918: procedure HexToBinary(Stream:TStream);
17919: Procedure HideDragImage;
17920: Procedure HideFormCaption( FormHandle : THandle; Hide : Boolean);
17921: Procedure HideTraybar;
17922: Procedure HideWindowForSeconds(secs: integer); //3 seconds
17923: Procedure HideWindowForSeconds2(secs: integer; appHandle, aSelf: TForm); //3 seconds
17924: Procedure HookOSExceptions;
17925: Procedure HookSignal( RtlSigNum : Integer);
17926: Procedure HSLToRGB( const H, S, L : Single; out R, G, B : Single);
17927: Procedure HTMLEyntax1Click( Sender : TObject);
17928: Procedure IFPS3ClassesPluginImport( Sender : TObject; x : TPSPascalCompiler);
17929: Procedure IFPS3ClassesPlugin1ExecImport( Sender : TObject; Exec : TPSEExec; x : TPSRuntimeClassImporter);
17930: Procedure ImportFromClipboard1Click( Sender : TObject);
17931: Procedure ImportFromClipboard2Click( Sender : TObject);
17932: Procedure IncAMonth( var Year, Month, Day : Word; NumberOfMonths : Integer);
17933: procedure Incb(var x: byte);
17934: Procedure Include1Click( Sender : TObject);
17935: Procedure IncludeOFF; //preprocessing
17936: Procedure IncludeON;
17937: procedure Info1Click(Sender: TObject);
17938: Procedure InitAltRecBuffers( CheckModified : Boolean);
17939: Procedure InitContext( Request : TWebRequest; Response : TWebResponse);
17940: Procedure InitContext(TAbstractWebModuleList:TAbstractWebModuleList;Request:TWebRequest;Response:TWebResponse);
17941: Procedure InitData( ASource : TDataSet);
17942: Procedure InitDelta( ADelta : TPacketDataSet);
17943: Procedure InitDelta( const ADelta : OleVariant);
17944: Procedure InitErrorPacket( E : EUpdateError; Response : TResolverResponse);
17945: Procedure Initialize;
17946: procedure InitializePackage(Module: HMODULE);
17947: Procedure INITIACTION;
17948: Procedure initHexArray(var hexn: THexArray); //THexArray', 'array[0..15] of char,';
17949: Procedure InitKeyFields( Tree : TUpdateTree; ADelta : TPacketDataSet);
17950: Procedure InitModule( AModule : TComponent);
17951: Procedure InitStdConvs;
17952: Procedure InitTreeData( Tree : TUpdateTree);
17953: Procedure INSERT;
17954: Procedure Insert( Index : Integer; AClass : TClass);
17955: Procedure Insert( Index : Integer; AComponent : TComponent);
17956: Procedure Insert( Index : Integer; AObject : TObject);
17957: Procedure Insert( Index : Integer; const S : WideString);
17958: Procedure Insert( Index : Integer; Image, Mask : TBitmap);
17959: Procedure Insert(Index: Integer; const S: string);
17960: procedure Insert(Index: Integer; S: string);
17961: procedure Insert(s: AnyString; var s2: AnyString; iPos: Longint);
17962: procedure InsertComponent(AComponent:TComponent);
17963: procedure InsertControl(AControl: TControl);

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17964: Procedure InsertIcon( Index : Integer; Image : TIcon)
17965: Procedure InsertMasked( Index : Integer; Image : TBitmap; MaskColor : TColor)
17966: Procedure InsertObject( Index : Integer; const S : WideString; AObject : TObject)
17967: procedure InsertObject(Index:Integer;S:String;AObject:TObject)
17968: Procedure Int16ToBytes( Value : SmallInt; Bytes : array of byte)
17969: Procedure Int32ToBytes( Value : Integer; Bytes : array of byte)
17970: Procedure Int64ToBytes( Value : Int64; Bytes : array of byte)
17971: procedure I64ToCardinals(I: Int64; var LowPart, HighPart: Cardinal);
17972: Procedure InternalBeforeResolve( Tree : TUpdateTree)
17973: Procedure InvalidateModuleCache
17974: Procedure InvalidateTitles
17975: Procedure InvalidDateDayError( const AYear, ADayOfYear : Word)
17976: Procedure InvalidDateMonthWeekError( const AYear, AMonth, AWeekOfMonth, ADayOfWeek : Word)
17977: Procedure InvalidDateTimeError(const AYear,AMonth,ADay,AHour,AMin,ASec,AMilSec:Word;const
  ABaseDate:TDateTime)
17978: Procedure InvalidDateWeekError(const AYear, AWeekOfYear, ADAYofWeek : Word)
17979: Procedure InvalidDayOfWeekInMonthError( const AYear, AMonth, ANthDayOfWeek, ADAYofWeek : Word)
17980: procedure JavaSyntax1Click(Sender: TObject);
17981: Procedure JclLocalesInfoList( const Strings : TStrings; InfoType : Integer)
17982: Procedure KillDataChannel
17983: Procedure Largefont1Click( Sender : TObject)
17984: Procedure LAST
17985: Procedure LaunchCpl( FileName : string)
17986: Procedure Launch( const AFile : string)
17987: Procedure LaunchFile( const AFile : string)
17988: Procedure LetFileList(FileList: TStringlist; apath: string);
17989: Procedure lineToNumber( xmemo : String; met : boolean)
17990: Procedure ListViewCustomDrawItem(Sender:TCustListView;Item:TListItem;State:TCustDrawState;var
  DefaultDraw:Bool)
17991: Procedure ListViewCustomDrawSubItem( Sender : TCustomListView; Item : TListItem; SubItem : Integer; State
  : TCustDrawState; var DefaultDraw : Boolean)
17992: Procedure ListViewData( Sender : TObject; Item : TListItem)
17993: Procedure ListViewDataFind(Sender:TObject; Find : TItemFind; const FindString : String; const FindPosition
  : TPoint; FindData:Pointer; StartIndex:Integer;Direction:TSearchDirection;Wrap:Boolean;var Index: Integer)
17994: Procedure ListViewDataHint( Sender : TObject; StartIndex, EndIndex : Integer)
17995: Procedure ListViewDblClick( Sender : TObject)
17996: Procedure ListViewKeyDown( Sender : TObject; var Key : Word; Shift : TShiftState)
17997: Procedure ListDLEExports(const FileName: string; List: TStrings);
17998: Procedure Load( const WSDLFileName: WideString; Stream : TMemoryStream)
17999: procedure LoadBytocode1Click(Sender: TObject)
18000: procedure LoadFilefromResource(const FileName: string; ms: TMemoryStream);
18001: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HP)
18002: Procedure LoadFromClipboardFormat( AFormat : Word; AData : THandle; APalette : HPALETTE)
18003: Procedure LoadFromFile( AFileName : string)
18004: Procedure LoadFromFile( const AFileName : string; const AHeadersOnly : Boolean)
18005: Procedure LoadFromFile( const FileName : string)
18006: Procedure LOADFROMFILE( const FILENAME : String; BLOTYPE : TBLOTYPE)
18007: Procedure LoadFromFile( const FileName : string; DataType : TDataType)
18008: Procedure LoadFromFile( const FileName : WideString)
18009: Procedure LoadFromFile( const FileName, FileType : string; Bitmap : TLinearBitmap)
18010: Procedure LoadFromFile(const AFileName: string)
18011: procedure LoadFromFile(FileName:string)
18012: procedure LoadFromFile(FileName:String)
18013: Procedure LoadFromResourceID( Instance : THandle; ResID : Integer)
18014: Procedure LoadFromResourceName( Instance : THandle; const ResName : String)
18015: Procedure LoadFromStream( AStream : TStream; const AHeadersOnly : Boolean)
18016: Procedure LoadFromStream( const Stream : TStream)
18017: Procedure LoadFromStream( S : TStream)
18018: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18019: Procedure LoadFromStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18020: Procedure LoadFromStream( Stream : TStream)
18021: Procedure LOADFROMSTREAM( STREAM : TSTREAM; BLOTYPE : TBLOTYPE)
18022: Procedure LoadFromStream( Stream : TStream; DataType : TDataType)
18023: procedure LoadFromStream(Stream: TStream);
18024: Procedure LoadFromStream1( Stream : TSeekableStream; const FormatExt : string);
18025: Procedure LoadFromStream2( Stream : TStream; const FormatExt : string);
18026: Procedure LoadFromStrings( AStrings : TStrings; const MimeSeparator : Char)
18027: Procedure LoadLastfile1Click( Sender : TObject)
18028: { LoadIcoToImage loads two icons from resource named NameRes,
  into two image lists ALarge and ASmall}
18030: Procedure LoadIcoToImage(ALarge, ASmall: ImgList.TCustomImageList; const NameRes: string);
18031: Procedure LoadMemo
18032: Procedure LoadParamsFromIniFile( FFileName : WideString)
18033: Procedure Lock
18034: Procedure Login
18035: Procedure MakeAlphaChannelFromAlphaPalette( Source : TLinearBitmap)
18036: Procedure MakeAlphaChannelFromColorKey( Source : TLinearBitmap; ColorKey : TColor)
18037: Procedure MakeCaseInsensitive
18038: Procedure MakeDeterministic( var bChanged : boolean)
18039: Procedure MakeGrayPal( var Palette, ColorCount : Integer)
18040: // type TVolumeLevel = 0..127; , saveFilePath as C:\MyFile.wav
18041: Procedure MakeSound(Frequency{Hz}, Duration{mSec}: Int; Volume: TVolumeLevel; savefilePath: string);
18042: Procedure MakeComplexSound(N:integer;freqlist:TStrings;Duration{mSec}:Int;pinknoise:boolean;Volume:Byte);
18043: Procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
18044: Procedure SetRectComplexFormatStr( const S : string)
18045: Procedure SetPolarComplexFormatStr( const S : string)
18046: Procedure AddComplexSoundObjectToList(newf,newp,newa,news:integer; freqlist: TStrings);
18047: Procedure MakeVisible
18048: Procedure MakeVisible( PartialOK : Boolean)

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18049: Procedure ManuallClick( Sender : TObject )
18050: Procedure MarkReachable
18051: Procedure maxBox; //shows the exe version data in a win box
18052: Procedure MeanAndStdDev( const Data : array of Double; var Mean, StdDev : Extended)
18053: Procedure Memo1Change( Sender : TObject )
18054: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Int;var Action:TSynReplaceAction)
18055: Procedure Memo1SpecialLineColors(Sender:TObject;Line:Integer; var Special:Boolean;var FG,BG: TColor)
18056: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
18057: procedure Memory1Click(Sender: TObject);
18058: Procedure MERGE( MENU : TMAINMENU )
18059: Procedure MergeChangeLog
18060: procedure MINIMIZE
18061: Procedure MinimizeMaxbox;
18062: Procedure MkDir( const s: string )
18063: Procedure mnuPrintFont1Click( Sender : TObject )
18064: procedure ModalStarted
18065: Procedure Modified
18066: Procedure ModifyAlias( Name : string; List : TStringList )
18067: Procedure ModifyDriver( Name : string; List : TStringList )
18068: Procedure MomentSkewKurtosis(const Data:array of Double;var M1,M2,M3,M4, Skew,Kurtosis:Extended)
18069: Procedure MouseToCell( X, Y : Integer; var ACol, ARow : Longint )
18070: Procedure Move( CurIndex, NewIndex : Integer )
18071: procedure Move(CurIndex, NewIndex: Integer);
18072: procedure Move2(const Source: TByteArray; var Dest: TByteArray; Count: Integer)
18073: Procedure MoveChars(const ASource: String; ASourceStart:int;var ADest: String; ADestStart,ALen:integer)
18074: Procedure moveCube( o : TMyLabel )
18075: Procedure MoveTo( Destination : LongInt; AttachMode : TAttachMode )
18076: procedure MoveTo(X, Y: Integer);
18077: procedure MoveWindowOrg(DC: HDC; DX, DY: Integer );
18078: Procedure MovePoint(var x,y:Extended; const angle:Extended);
18079: Procedure Multiply( Multiplier1, Multiplier2 : TMyBigInt );
18080: Procedure Multiply1( Multiplier1 : TMyBigInt; Multiplier2 : Integer );
18081: Procedure MsgAbout(Handle:Int;const Msg,Caption:string;const IcoName:string ='MAINICON';Flags:DWORD=MB_OK );
18082: Procedure mxButton(x,y,width,height,top,left,ahandle: integer);
18083: Procedure New( Width, Height : Integer; PixFormat : TPixelFormat )
18084: procedure New(P: PChar)
18085: procedure New1Click(Sender: TObject);
18086: procedure NewInstance1Click(Sender: TObject);
18087: Procedure NEXT
18088: Procedure NextMonth
18089: Procedure Noop
18090: Procedure NormalizePath( var APath : string )
18091: procedure ObjectBinaryToText( Input, Output: TStream )
18092: procedure ObjectBinaryToText1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat )
18093: procedure ObjectResourceToText( Input, Output: TStream )
18094: procedure ObjectResourceToText1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat )
18095: procedure ObjectTextToBinary( Input, Output: TStream )
18096: procedure ObjectTextToBinary1( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat )
18097: procedure ObjectTextToResource( Input, Output: TStream )
18098: procedure ObjectTextToResourcel( Input, Output: TStream;var OriginalFormat: TStreamOriginalFormat )
18099: Procedure Open( const Name, Address, Service : string; Port : Word; Block : Boolean )
18100: Procedure Open( const UserID : WideString; const Password : WideString );
18101: Procedure Open;
18102: Procedure open1Click( Sender : TObject )
18103: Procedure OpenCdDrive
18104: Procedure OpenCloseCdDrive( OpenMode : Boolean; Drive : Char )
18105: Procedure OpenCurrent
18106: Procedure OpenFile(vfilenamepath: string)
18107: Procedure OpenDirectory1Click( Sender : TObject )
18108: Procedure OpenDir(adir: string);
18109: Procedure OpenIndexFile( const IndexName : string )
18110: Procedure OpenSchema(const Schema:TSchemaInf;const Restricts:OleVar;const SchemID:OleVariant;DataSet:TADODataset)
18111: Procedure OpenWriteBuffer( const AThreshold : Integer )
18112: Procedure OptimizeMem
18113: Procedure Options1( AURL : string );
18114: Procedure OutputDebugString(lpOutputString : PChar)
18115: Procedure PackBuffer
18116: Procedure Paint
18117: Procedure PaintToCanvas( Canvas : TCanvas; const Dest : TRect; HalftoneStretch : Boolean )
18118: Procedure PaintToTBitmap( Target : TBitmap )
18119: Procedure PaletteChanged
18120: Procedure ParentBidiModeChanged
18121: Procedure PARENTBIDI MODECHANGED( ACONTROL : TOBJECT )
18122: Procedure PasteFromClipboard;
18123: Procedure PasteImage( Source : TLinearBitmap; X, Y : Integer )
18124: Procedure PathExtractElements( const Source : string; var Drive, Path, FileName, Ext : string )
18125: Procedure PerformEraseBackground(Control: TControl; DC: HDC);
18126: Procedure PEError( Text : string )
18127: procedure Pie(X1, Y1, X2, Y2, X3, Y3, X4, Y4: Integer);
18128: procedure Pie(X1:Integer;Y1:Integer;X2:Integer;Y2:Integer;X3:Int;Y3:Integer;X4:Integer;Y4:Integer);
18129: Procedure Play(FromFrame, ToFrame : Word; Count : Integer )
18130: procedure playmp3(mpPath: string);
18131: Procedure PlayMP31Click( Sender : TObject )
18132: Procedure PointCopy( var Dest : TPoint; const Source : TPoint )
18133: Procedure PointMove( var P : TPoint; const DeltaX, DeltaY : Integer )
18134: procedure PolyBezier(const Points: array of TPoint);
18135: procedure PolyBezierTo(const Points: array of TPoint);

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18136: procedure Polygon(const Points: array of TPoint);
18137: procedure Polyline(const Points: array of TPoint);
18138: Procedure Pop;
18139: Procedure POPULATEOLE2MENU(SHAREDMENU: HMENU; GROUPS: array of INT; var WIDTHS : array of LONGINT);
18140: Procedure PopulationVarianceAndMean( const X : TDynFloatArray; var Variance, Mean : Float);
18141: Procedure POPUP( X, Y : INTEGER );
18142: Procedure PopupURL(URL : WideString);
18143: Procedure POST;
18144: Procedure Post4( AURL : string; const ASource : TStrings; const AResponseContent : TStream);
18145: Procedure Post5( AURL : string; const ASource, AResponseContent : TStream);
18146: Procedure Post6( AURL : string; const ASource : TIIdMultiPartFormDataStream; AResponseContent : TStream);
18147: Procedure PostUser( const Email, FirstName, LastName : WideString);
18148: Procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
18149: procedure Pred(X: int64);
18150: Procedure Prepare;
18151: Procedure PrepareStatement;
18152: Procedure PreProcessXML( AList : TStrings );
18153: Procedure PreventDestruction;
18154: Procedure Print( const Caption : string );
18155: procedure PrintBitmap(aGraphic: TGraphic; Title: string);
18156: procedure printf(const format: String; const args: array of const);
18157: Procedure PrintList(Value: TStringList);
18158: Procedure PrintImage(aValue:TBitmap;Style:TBitmapStyle); //TBitmapStyle=(bsNormal,bsCentered,bsStretched)
18159: Procedure PrintoutClick( Sender : TObject );
18160: Procedure ProcessHeaders;
18161: Procedure PROCESSMENUCHAR( var MESSAGE : TWMMENUCHAR );
18162: Procedure ProcessMessage( AMsg : TIIdMessage; AHeaderOnly : Boolean );
18163: Procedure ProcessMessage1( AMsg : TIIdMessage; const AStream : TStream; AHeaderOnly : Boolean );
18164: Procedure ProcessMessage2( AMsg : TIIdMessage; const AFilename : string; AHeaderOnly : Boolean );
18165: Procedure ProcessMessagesOFF; //application.processmessages
18166: Procedure ProcessMessagesON;
18167: Procedure ProcessPath(const EditText:string;var Drive:Char; var DirPart:string; var FilePart : string);
18168: Procedure ProcessPath1(const EditText:string;var Drive:Char; var DirPart:string; var FilePart:string);
18169: Procedure Prolist Size is: 3797 /1415
18170: Procedure procMessClick( Sender : TObject );
18171: Procedure PSScriptCompile( Sender : TPSScript );
18172: Procedure PSScriptExecute( Sender : TPSScript );
18173: Procedure PSScriptLine( Sender : TObject );
18174: Procedure Push( ABoundary : string );
18175: procedure PushItem(AItem: Pointer);
18176: Procedure Put2( AURL : string; const ASource, AResponseContent : TStream );
18177: Procedure Put2( const ASourceFile : string; const ADestFile : string; const AAppend : boolean );
18178: procedure PutLinuxLines(const Value: string );
18179: Procedure Quit;
18180: Procedure RaiseConversionError( const AText : string );
18181: Procedure RaiseConversionError1( const AText : string; const AArgs : array of const );
18182: Procedure RaiseConversionRegError( AFamily : TConvFamily; const ADescription : string );
18183: procedure RaiseException(Ex: TIEException; Param: String);
18184: Procedure RaiseExceptionForLastCmdResult;
18185: procedure RaiseLastException;
18186: procedure RaiseException2;
18187: Procedure RaiseException3(const Msg: string);
18188: Procedure RaiseExcept( const Msg: string );
18189: Procedure RaiseLastOSError;
18190: Procedure RaiseLastWin32;
18191: procedure RaiseLastWin32Error();
18192: Procedure RaiseListError( const ATemplate : string; const AData : array of const );
18193: Procedure RandomFillStream( Stream : TMemoryStream );
18194: procedure randomize;
18195: Procedure Rasterize( Rasterizer : TRasterizer; Dst : TBitmap32; DstRect : TRect );
18196: Procedure RCS;
18197: Procedure Read( Socket : TSocket );
18198: Procedure ReadBlobData;
18199: procedure ReadBuffer(Buffer:String;Count:LongInt);
18200: procedure ReadOnly1Click(Sender: TObject);
18201: Procedure ReadSection( const Section : string; Strings : TStrings );
18202: Procedure ReadSections( Strings : TStrings );
18203: Procedure ReadSections( Strings : TStrings );
18204: Procedure ReadSections1( const Section : string; Strings : TStrings );
18205: Procedure ReadSectionValues( const Section : string; Strings : TStrings );
18206: Procedure ReadStream( AStream : TStream; AByteCount:LongInt; const AReadUntilDisconnect : boolean );
18207: Procedure ReadStrings( ADest : TStrings; AReadLinesCount : Integer );
18208: Procedure ReadVersion2(aFileName: STRING; aVersion : TStrings );
18209: Function ReadVersion(aFileName: STRING; aVersion : TStrings): boolean;
18210: Procedure Realign;
18211: procedure Rectangle(X1, Y1, X2, Y2: Integer);
18212: Procedure Rectangle1( const Rect : TRect );
18213: Procedure RectCopy( var Dest : TRect; const Source : TRect );
18214: Procedure RectFitToScreen( var R : TRect );
18215: Procedure RectGrow( var R : TRect; const Delta : Integer );
18216: Procedure RectGrowX( var R : TRect; const Delta : Integer );
18217: Procedure RectGrowY( var R : TRect; const Delta : Integer );
18218: Procedure RectMove( var R : TRect; const DeltaX, DeltaY : Integer );
18219: Procedure RectMoveTo( var R : TRect; const X, Y : Integer );
18220: Procedure RectNormalize( var R : TRect );
18221: // TFileCallbackProcedure = procedure(filename:string);
18222: Procedure RecurseDirectory( Dir: String; IncludeSubs: boolean; callback: TFileCallbackProcedure );
18223: Procedure RecurseDirectory2( Dir: String; IncludeSubs : boolean );
18224: Procedure RedirectTransition(oOldState:TniRegularExpressionState; oNewState : TniRegularExpressionState );

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18225: Procedure Refresh;
18226: Procedure RefreshData( Options : TFetchOptions);
18227: Procedure REFRESHLOOKUPLIST;
18228: Procedure regExPathfinder(Pathin, fileout, firstp, aregex, ext: string; asort: boolean);
18229: Procedure RegExPathfinder2(Pathin, fileout, firstp, aregex, ext: string; asort, acopy: boolean);
18230: Procedure RegisterAuthenticationMethod( MethodName : String; AuthClass : TIIdAuthenticationClass);
18231: Procedure RegisterChanges( Value : TChangeLink);
18232: Procedure RegisterConversionFormat( const AExtension : string; AConversionClass : TConversionClass);
18233: Procedure RegisterFileFormat( const AExtension, ADescription : string; AGraphicClass : TGraphicClass);
18234: Procedure RegisterFileFormat(Extension,AppID:string;Description:string;Executable:string;IconIndex:Int);
18235: Procedure ReInitialize( ADelay : Cardinal);
18236: procedure RELEASE;
18237: Procedure Remove( const AByteCount : integer);
18238: Procedure REMOVE( FIELD : TFIELD);
18239: Procedure REMOVE( ITEM : TMENUITEM);
18240: Procedure REMOVE( POPUP : TPOPUPMENU);
18241: Procedure RemoveAllPasswords;
18242: procedure RemoveComponent(AComponent:TComponent);
18243: Procedure RemoveDir( const ADirName : string);
18244: Procedure RemoveLambdaTransitions( var bChanged : boolean);
18245: Procedure REMOVEPARAM( VALUE : TPARAM);
18246: Procedure RemoveTransitionTo( oState : TniRegularExpressionState; xCharacters : TCharset);
18247: Procedure RemoveTransitionToL( oState : TniRegularExpressionState);
18248: Procedure Rename( const ASourceFile, ADestFile : string);
18249: Procedure Rename( const FileName : string; Reload : Boolean);
18250: Procedure RenameTable( const NewTableName : string);
18251: Procedure Replace( Index : Integer; Image, Mask : TBitmap);
18252: Procedure ReplaceClick( Sender : TObject);
18253: Procedure ReplaceDate( var DateTime : TDateTime; NewDate : TDateTime);
18254: procedure ReplaceDate(var DateTime: TDateTime; const NewDate: TDateTime));
18255: Procedure ReplaceIcon( Index : Integer; Image : TIcon);
18256: Procedure ReplaceMasked( Index : Integer; NewImage : TBitmap; MaskColor : TColor);
18257: Procedure ReplaceTime( var DateTime : TDateTime; NewTime : TDateTime);
18258: procedure ReplaceTime(var DateTime: TDateTime; const NewTime: TDateTime);
18259: Procedure Requery( Options : TExecuteOptions);
18260: Procedure Reset;
18261: Procedure Reset1Click( Sender : TObject);
18262: Procedure ResizeCanvas( XSiz, YSiz, XPos, YPos : Integer; Color : TColor);
18263: procedure ResourceExplore1Click(Sender: TObject);
18264: Procedure RestoreContents;
18265: Procedure RestoreDefaults;
18266: Procedure RestoreOtherInstance( MainFormClassName, MainFormCaption : string);
18267: Procedure RetrieveHeaders;
18268: Procedure RevertRecord;
18269: Procedure RGBAToBGRA( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18270: Procedure RGBToBGR( const Source, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18271: Procedure RGBToBGR1( const R, G, B, Target : Pointer; const BitsPerSample : Byte; Count : Cardinal);
18272: Procedure RGBToHSL( const R, G, B : Single; out H, S, L : Single);
18273: Procedure RGBToHSL1( const RGB : TColor32; out H, S, L : Single);
18274: Procedure RGBToHSV( r, g, b : Integer; var h, s, v : Integer);
18275: Procedure RleCompress2( Stream : TStream);
18276: Procedure RleDecompress2( Stream : TStream);
18277: Procedure RmDir(const S: string);
18278: Procedure Rollback;
18279: Procedure Rollback( TransDesc : TTransactionDesc);
18280: Procedure RollbackFreeAndNil( var Transaction : TDBXTransaction);
18281: Procedure RollbackIncompleteFreeAndNil( var Transaction : TDBXTransaction);
18282: Procedure RollbackTrans;
18283: procedure RoundRect(X1, Y1, X2, Y2, X3, Y3: Integer);
18284: Procedure RoundToAllocGranularity64( var Value : Int64; Up : Boolean);
18285: Procedure RoundToAllocGranularityPtr( var Value : Pointer; Up : Boolean);
18286: Procedure RunDll32Internal( Wnd : HWnd; const DLLName, FuncName, CmdLine : string; CmdShow : Integer);
18287: Procedure S_AddMessageToStrings( AMessages : TStrings; AMsg : string);
18288: Procedure S_EBox( const AText : string);
18289: Procedure S_GetEncryptionKeys(DateTime1,DateTime2:TDateTime;var StartKey:int;var MultKey:integer;var AddKey:int);
18290: Procedure S_IBox( const AText : string);
18291: Procedure S_ReplaceChar( var cStr : string; cOldChr, cNewChr : char);
18292: Procedure S_ReplaceStringInFile( AFileName : string; ASearchString, AReplaceString : string);
18293: Procedure S_TokenInit( cBuffer : PChar; const cDelimiters : string);
18294: Procedure SampleVarianceAndMean;
18295: ( const X : TDynFloatArray; var Variance, Mean : Float);
18296: Procedure Save2Click( Sender : TObject);
18297: Procedure Saveas3Click( Sender : TObject);
18298: Procedure Savebefore1Click( Sender : TObject);
18299: Procedure SaveBytesToFile(const Data: TBytes; const FileName: string);
18300: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
18301: Procedure SaveConfigFile;
18302: Procedure SaveOutput1Click( Sender : TObject);
18303: procedure SaveScreenshotClick(Sender: TObject);
18304: Procedure SaveLn(pathname, content: string); // $SaveLn(exepath+'mysavelntest.txt', memo2.text);
18305: Procedure SaveToClipboardFormat( var AFormat : Word; var AHandle; var APalette : HPALETTE);
18306: Procedure SaveToClipboardFormat( var Format : Word; var Data : THandle; var APalette : HPALETTE);
18307: Procedure SaveToFile( AFileName : string);
18308: Procedure SAVEFILE( const FILENAME : String);
18309: Procedure SaveToFile( const FileName : WideString);
18310: Procedure SaveToFile( const FileName : WideString; Format : TPersistFormat);
18311: Procedure SaveToFile( const FileName, FileType : string; Bitmap : TLinearBitmap);
18312: procedure SaveToFile(FileName: string);

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18313: procedure SaveToFile(FileName:String)
18314: Procedure SaveToStream( AStream : TStream; const AHeadersOnly : Boolean)
18315: Procedure SaveToStream( OutStream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18316: Procedure SaveToStream( S : TStream)
18317: Procedure SaveToStream( Stream : TSeekableStream; const Ext : string; Bitmap : TLinearBitmap)
18318: Procedure SaveToStream( Stream : TStream)
18319: Procedure SaveToStream( Stream : TStream; Format : TDataPacketFormat)
18320: procedure SaveToStream(Stream: TStream);
18321: procedure SaveToStream(Stream:TStream)
18322: Procedure SaveToStream1( Stream : TSeekableStream; const FormatExt : string);
18323: Procedure SaveToStream2( Stream : TStream; const FormatExt : string);
18324: Procedure SaveToStrings( AStrings : TStrings; const MimeSeparator : Char)
18325: procedure Say(const sText: string)
18326: Procedure SBytecode1Click( Sender : TObject)
18327: Procedure ScaleImage( const SourceBitmap, ResizedBitmap : TBitmap; const ScaleAmount : Double)
18328: procedure ScriptExplorer1Click(Sender: TObject);
18329: Procedure Scroll( Distance : Integer)
18330: Procedure Scroll( DX, DY : Integer)
18331: procedure ScrollBy(DeltaX, DeltaY: Integer);
18332: procedure SCROLLINVIEW(ACONTROL:TCONTROL)
18333: Procedure ScrollTabs( Delta : Integer)
18334: Procedure Search1Click( Sender : TObject)
18335: procedure SearchAndOpenDoc(vfilenamepath: string)
18336: procedure SearchAndOpenFile(vfilenamepath: string)
18337: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string)
18338: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
18339: Procedure SearchNext1Click( Sender : TObject)
18340: Procedure Select( Node : TTreeNode; ShiftState : TShiftState);
18341: Procedure Select1( const Nodes : array of TTreeNode);
18342: Procedure Select2( Nodes : TList);
18343: Procedure SelectNext( Direction : Boolean)
18344: Procedure SelectNextPage( GoForward : Boolean; CheckTabVisible : Boolean)
18345: Procedure SelfTestPEM //unit uPSI_cPEM
18346: Procedure Send( AMsg : TIdMessage)
18347: //config forst in const MAILINITFILE = 'maildef.ini';
18348: //ex.: SendEmail('max@kleiner.ch','max@kleiner.com','this test7','maxbox the SSL fox','');
18349: Procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18350: Procedure SendMail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
18351: Procedure SendMsg(AMsg : TIdMessage; const AHeadersOnly : Boolean)
18352: Procedure SendMsg(AMsg : TIdMessage; const AHeadersOnly: Boolean = False)
18353: Procedure SendResponse
18354: Procedure SendStream( AStream : TStream)
18355: Procedure Set8087CW( NewCW : Word)
18356: Procedure SetAll( One, Two, Three, Four : Byte)
18357: Procedure SetAltRecBuffers( Old, New, Cur : PChar)
18358: Procedure SetAppDispatcher( const AD dispatcher : TComponent)
18359: procedure SetArrayLength;
18360: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer); //2 dimension
18361: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
18362: Procedure SetAsHandle( Format : Word; Value : THandle)
18363: procedure SetBounds(ALeft, ATop, AWidth, AHeight: Integer)
18364: procedure SetCaptureControl(Control: TControl);
18365: Procedure SetColumnAttributes
18366: Procedure SetCookieField(Values:TStrings;const ADomain,APath:string;AExpires:TDateTime;ASecure:Boolean)
18367: Procedure SetCustomHeader( const Name, Value : string)
18368: Procedure SetExprParams(const Text:Widestring;Opts:TFilterOpts;ParserOpts:TParserOpts;const
  FieldName:Widestring)
18369: Procedure SetFMTBCD( Buffer : TRecordBuffer; value : TBcd)
18370: Procedure SetFocus
18371: procedure SetFocus; virtual;
18372: Procedure SetInitialState
18373: Procedure SetKey
18374: procedure SetLastError(ErrorCode: Integer)
18375: procedure SetLength;
18376: Procedure SetLineBreakStyle( var T : Text; Style : TTextLineBreakStyle)
18377: Procedure SETOLE2MENUHANDLE( HANDLE : HMENU)
18378: Procedure SetParams( ADataSet : TDataSet; UpdateKind : TUpdateKind);
18379: procedure SETPARAMS(APOSITION,AMIN,AMAX:INTEGER)
18380: Procedure SetParams1( UpdateKind : TUpdateKind);
18381: Procedure SetPassword( const Password : string)
18382: Procedure SetPointer( Ptr : Pointer; Size : Longint)
18383: Procedure SetPrimalityTest( const Method : TPrimalityTestMethod)
18384: Procedure SetPrinter( ADevice, ADriver, APort : PChar; ADeviceMode : THandle)
18385: Procedure SetProvider( Provider : TComponent)
18386: Procedure SetProxy( const Proxy : string)
18387: Procedure SetPSResult( var PSResult : TPSResult; Value : TObject)
18388: Procedure SetRange( const StartValues, EndValues : array of const)
18389: Procedure SetRangeEnd
18390: Procedure SetRate( const aPercent, aYear : integer)
18391: procedure SetRate(const aPercent, aYear: integer)
18392: Procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
18393: Procedure SetSafeCallExceptionMsg( Msg : String)
18394: procedure SETSELTEXTBUF(BUFFER:PCHAR)
18395: Procedure SetSize( AWidth, AHeight : Integer)
18396: procedure SetSize(NewSize:LongInt)
18397: procedure SetString(var s: string; buffer: PChar; len: Integer)
18398: Procedure SetStrings( List : TStrings)
18399: Procedure SetText( Text : PwideChar)
18400: procedure SetText(Text: PChar);

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18401: Procedure SetTextBuf( Buffer : PChar)
18402: procedure SETTEXTBUF(BUFFER:PCCHAR)
18403: Procedure SetTick( Value : Integer)
18404: Procedure SetTimeout( ATimeOut : Integer)
18405: Procedure SetTraceEvent( Event : TDBXTraceEvent)
18406: Procedure SetUserName( const UserName : string)
18407: Procedure SetWallpaper( Path : string);
18408: procedure ShellStyle1Click(Sender: TObject);
18409: Procedure SHORTCUTTOKEY( SHORCUT : TSHORCUT; var KEY : WORD; var SHIFT : TSHIFTSTATE)
18410: Procedure ShowFileProperties( const FileName : string)
18411: Procedure ShowInclude1Click( Sender : TObject)
18412: Procedure ShowInterfaces1Click( Sender : TObject)
18413: Procedure ShowLastException1Click( Sender : TObject)
18414: Procedure ShowMessage( const Msg : string)
18415: Procedure ShowMessageBig(const aText : string);
18416: Procedure ShowMessageBig2(const aText : string; aautosize: boolean);
18417: Procedure ShowMessageBig3(const aText : string; fsize: byte; aautosize: boolean);
18418: Procedure MsgBig(const aText : string); //alias
18419: procedure showMessage(mytext: string);
18420: Procedure ShowMessageFmt( const Msg : string; Params : array of const)
18421: procedure ShowMessageFmt(const Msg: string; Params: array of const))
18422: Procedure ShowMessagePos( const Msg : string; X, Y : Integer)
18423: procedure ShowMessagePos(const Msg: string; X: Integer; Y: Integer))
18424: Procedure ShowSearchDialog( const Directory : string)
18425: Procedure ShowSpecChars1Click( Sender : TObject)
18426: Procedure ShowBitmap(bmap: TBitmap); //draw in a form!
18427: Procedure ShredFile( const FileName : string; Times : Integer)
18428: procedure Shuffle(vQ: TStringList);
18429: Procedure ShuffleList( var List : array of Integer; Count : Integer)
18430: Procedure SimulateKeystroke( Key : byte; Shift : TShiftState)
18431: Procedure SinCos( const Theta : Extended; var Sin, Cos : Extended)
18432: Procedure SinCosE( X : Extended; out Sin, Cos : Extended)
18433: Procedure Site( const ACommand : string)
18434: Procedure SkipEOL
18435: Procedure Sleep( ATime : cardinal)
18436: Procedure Sleep( milliseconds : Cardinal)
18437: Function SleepEx( dwMilliseconds : DWORD; bAlertable : BOOL) : DWORD
18438: Procedure Slinenumbers1Click( Sender : TObject)
18439: Procedure Sort
18440: Procedure SortColorArray(ColorArray:TColorArray;l,R:Int;SortType:TColorArraySortType;Reverse:Bool)
18441: procedure Speak(const sText: string) //async like voice
18442: procedure Speak2(const sText: string) //sync
18443: procedure Split(Str: string; SubStr: string; List: TStrings);
18444: Procedure SplitNameValuePair( const Line : string; var Name, Value : string)
18445: Procedure SplitColumns( const AData : String; AStrings : TStrings; const ADelim : String)
18446: Procedure SplitColumnsNoTrim( const AData : String; AStrings : TStrings; const ADelim : String)
18447: Procedure SplitLines( AData : PChar; ADataSize : Integer; AStrings : TStrings)
18448: Procedure SplitString( const AStr, AToken : String; var VLeft, VRight : String)
18449: procedure SQLSyntax1Click(Sender: TObject);
18450: Procedure SRand( Seed : RNG_IntType)
18451: Procedure Start
18452: Procedure StartCount( var Counter : TJclCounter; const Compensate : Boolean)
18453: procedure StartFileFinder3(spath,aext,searchstr: string; arecursiv: boolean; reslist: TStringlist);
18454: Procedure StartTransaction( TransDesc : TTransactionDesc)
18455: Procedure Status( var AStatusList : TStringList)
18456: Procedure StatusBar1DblClick( Sender : TObject)
18457: Procedure StepInto1Click( Sender : TObject)
18458: Procedure StepIt
18459: Procedure StepOut1Click( Sender : TObject)
18460: Procedure Stop
18461: procedure stopmp3;
18462: procedure StartWeb(aurl: string);
18463: Procedure StrToInt( aint: integer; astr: string); //of system
18464: Procedure StrDispose( Str : PChar)
18465: procedure StrDispose(Str: PChar)
18466: Procedure StrReplace(var Str: String; Old, New: String);
18467: Procedure StretchDIBits( DC : THandle; const Dest : TRect; HalftoneStretch : Boolean)
18468: procedure StretchDraw(const Rect: TRect; Graphic: TGraphic);
18469: Procedure StringToBytes( Value : String; Bytes : array of byte)
18470: procedure StrSet(c : Char; I : Integer; var s : String);
18471: Procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
18472: Procedure StructureMount( APath : String)
18473: procedure STYLECHANGED(SENDER:TOBJECT)
18474: Procedure Subselect( Node : TTreeNode; Validate : Boolean)
18475: procedure Succ(X: int64);
18476: Procedure SumsAndSquares( const Data : array of Double; var Sum, SumOfSquares : Extended)
18477: procedure SwapChar(var X,Y: char); //swapX follows
18478: Procedure SwapFloats( var X, Y : Float)
18479: procedure SwapGrid(grd: TStringGrid);
18480: Procedure SwapOrd( var I, J : Byte);
18481: Procedure SwapOrd( var X, Y : Integer)
18482: Procedure SwapOrd1( var I, J : Shortint);
18483: Procedure SwapOrd2( var I, J : Smallint);
18484: Procedure SwapOrd3( var I, J : Word);
18485: Procedure SwapOrd4( var I, J : Integer);
18486: Procedure SwapOrd5( var I, J : Cardinal);
18487: Procedure SwapOrd6( var I, J : Int64);
18488: Procedure SymmetricCompareFiles(const plaintext, replaintext: string)
18489: Procedure Synchronizel( Method : TMethod);

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18490: procedure SyntaxCheck1Click(Sender: TObject);
18491: Procedure SysFreeString(const S: WideString); stdcall;
18492: Procedure TakeOver( Other : TLinearBitmap)
18493: Procedure TalkIn(const sText: string) //async voice
18494: procedure tbtn6resClick(Sender: TObject);
18495: Procedure tbtnUseCaseClick( Sender : TObject);
18496: procedure TerminalStyle1Click(Sender: TObject);
18497: Procedure Terminate
18498: Procedure texSyntax1Click( Sender : TObject)
18499: procedure TextOut(X, Y: Integer; Text: string);
18500: Procedure TextRect( Rect : TRect; X, Y : Integer; const Text : string);
18501: procedure TextRect(Rect: TRect; X: Integer; Y: Integer; const Text: string);
18502: Procedure TextRect1( var Rect : TRect; var Text : string; TextFormat : TTextFormat);
18503: Procedure TextStart
18504: procedure TILE
18505: Procedure TimeStampToBytes( Value : TBcd; Bytes : array of byte)
18506: Procedure TitleClick( Column : TColumn)
18507: Procedure ToDo
18508: procedure toolbtnTutorialClick(Sender: TObject);
18509: Procedure Trace1( AURL : string; const AResponseContent : TStream);
18510: Procedure TransferMode( ATransferMode : TIIdFTPTTransferMode)
18511: Procedure Truncate
18512: procedure Tutorial101Click(Sender: TObject);
18513: procedure Tutorial10Statistics1Click(Sender: TObject);
18514: procedure Tutorial11Forms1Click(Sender: TObject);
18515: procedure Tutorial12SQL1Click(Sender: TObject);
18516: Procedure tutorial1Click( Sender : TObject)
18517: Procedure tutorial21Click( Sender : TObject)
18518: Procedure tutorial31Click( Sender : TObject)
18519: Procedure tutorial4Click( Sender : TObject)
18520: Procedure Tutorial5Click( Sender : TObject)
18521: procedure Tutorial6Click(Sender: TObject);
18522: procedure Tutorial91Click(Sender: TObject);
18523: Procedure UnhookSignal( RtlSigNum : Integer; OnlyIfHooked : Boolean)
18524: procedure UniqueString(var str: AnsiString)
18525: procedure UnloadLoadPackage(Module: HMODULE)
18526: Procedure Unlock
18527: Procedure UNMERGE( MENU : TMAINMENU)
18528: Procedure UnRegisterChanges( Value : TChangeLink)
18529: Procedure UnregisterConversionFamily( const AFamily : TConvFamily)
18530: Procedure UnregisterConversionType( const AType : TConvType)
18531: Procedure UnRegisterProvider( Prov : TCustomProvider)
18532: Procedure UPDATE
18533: Procedure UpdateBatch( AffectRecords : TAffectRecords)
18534: Procedure UPDATECURSORPOS
18535: Procedure UpdateFile
18536: Procedure UpdateItems( FirstIndex, LastIndex : Integer)
18537: Procedure UpdateResponse( AResponse : TWebResponse)
18538: Procedure UpdateScrollBar
18539: Procedure UpdateView1Click( Sender : TObject)
18540: procedure Val(const s: string; var n, z: Integer)
18541: procedure VarArraySet(c : Variant; I : Integer; var s : Variant);
18542: Procedure VarFMTBcdCreate( var ADest : Variant; const ABcd : TBcd);
18543: Procedure VariantAdd( const src : Variant; var dst : Variant)
18544: Procedure VariantAnd( const src : Variant; var dst : Variant)
18545: Procedure VariantArrayRedim( var V : Variant; High : Integer)
18546: Procedure VariantCast( const src : Variant; var dst : Variant; vt : Integer)
18547: Procedure VariantClear( var V : Variant)
18548: Procedure VariantCpy( const src : Variant; var dst : Variant)
18549: Procedure VariantDiv( const src : Variant; var dst : Variant)
18550: Procedure VariantMod( const src : Variant; var dst : Variant)
18551: Procedure VariantMul( const src : Variant; var dst : Variant)
18552: Procedure VariantOr( const src : Variant; var dst : Variant)
18553: Procedure VariantPutElement( var V : Variant; const data : Variant; il : integer);
18554: Procedure VariantPutElement1( var V : Variant; const data : Variant; il, i2 : integer);
18555: Procedure VariantPutElement2( var V : Variant; const data : Variant; il, i2, i3 : integer);
18556: Procedure VariantPutElement3( var V : Variant; const data : Variant; il, i2, i3, i4 : integer);
18557: Procedure VariantPutElement4( var V : Variant; const data : Variant; il, i2, i3, i4, i5 : integer);
18558: Procedure VariantShl( const src : Variant; var dst : Variant)
18559: Procedure VariantShr( const src : Variant; var dst : Variant)
18560: Procedure VariantSub( const src : Variant; var dst : Variant)
18561: Procedure VariantXor( const src : Variant; var dst : Variant)
18562: Procedure VarCastError;
18563: Procedure VarCastError1( const ASourceType, ADestType : TVarType);
18564: Procedure VarInvalidOp
18565: Procedure VarInvalidNullOp
18566: Procedure VarOverflowError( const ASourceType, ADestType : TVarType)
18567: Procedure VarRangeCheckError( const ASourceType, ADestType : TVarType)
18568: Procedure VarArrayCreateError
18569: Procedure VarResultCheck( AResult : HRESULT);
18570: Procedure VarResultCheck1( AResult : HRESULT; ASourceType, ADestType : TVarType);
18571: Procedure HandleConversionException( const ASourceType, ADestType : TVarType)
18572: Function VarTypeAsText( const AType : TVarType) : string
18573: procedure Voice(const sText: string) //async
18574: procedure Voice2(const sText: string) //sync
18575: Procedure WaitMilliseconds( AMSec : word)
18576: Procedure WideAppend( var dst : WideString; const src : WideString)
18577: Procedure WideAssign( var dst : WideString; var src : WideString)
18578: Procedure WideDelete( var dst : WideString; index, count : Integer)

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18579: Procedure WideFree( var s : WideString)
18580: Procedure WideFromAnsi( var dst : WideString; const src : AnsiString)
18581: Procedure WideFromPChar( var dst : WideString; src : PChar)
18582: Procedure WideInsert( var dst : WideString; const src : WideString; index : Integer)
18583: Procedure WideSetLength( var dst : WideString; len : Integer)
18584: Procedure WideString2Stream( aWideString : WideString; oStream : TStream)
18585: Procedure WideStringToBytes( Value : WideString; Bytes : array of byte)
18586: Procedure WinColorToOpenGLColor( const Color : TColor; out Red, Green, Blue : Float)
18587: Procedure WinInet_HttpGet(const Url: string; Stream:TStream);
18588: Procedure HttpGet(const Url: string; Stream:TStream);
18589: Procedure WordToTwoBytes( AWord : Word; ByteArray : TIIdBytes; Index : integer)
18590: Procedure WordWrap1Click( Sender : TObject)
18591: Procedure Write( const AOut : string)
18592: Procedure Write( Socket : TSocket)
18593: procedure Write(S: string);
18594: Procedure WriteBinaryStream( const Section, Name : string; Value : TStream)
18595: Procedure WriteBool( const Section, Ident : string; Value : Boolean)
18596: Procedure WriteBuffer( const ABuffer, AByteCount : Longint; const AWriteNow : Boolean)
18597: procedure WriteBuffer(Buffer:String;Count:LongInt)
18598: Procedure WriteCardinal( AValue : Cardinal; const AConvert : Boolean)
18599: Procedure WriteChar( AValue : Char)
18600: Procedure WriteDate( const Section, Name : string; Value : TDateTime)
18601: Procedure WriteDateTime( const Section, Name : string; Value : TDateTime)
18602: Procedure WriteFloat( const Section, Name : string; Value : Double)
18603: Procedure WriteHeader( AHeader : TStrings)
18604: Procedure WriteInteger( AValue : Integer; const AConvert : Boolean)
18605: Procedure WriteInteger( const Section, Ident : string; Value : Longint)
18606: Procedure WriteLn( const AOut : string)
18607: procedure Writeln(s: string);
18608: Procedure WriteLog( const FileName, LogLine : string)
18609: Procedure WriteRFCReply( AReply : TIIdRFCReply)
18610: Procedure WriteRFCStrings( AStrings : TStrings)
18611: Procedure WriteSmallInt( AValue : SmallInt; const AConvert : Boolean)
18612: Procedure WriteStream(ASream:TStream;const AAll:Bool;const AWriteByteCount:Bool;const ASIZE:Int)
18613: Procedure WriteString( const Section, Ident, Value : String)
18614: Procedure WriteStrings( AValue : TStrings; const AWriteLinesCount : Boolean)
18615: Procedure WriteTime( const Section, Name : string; Value : TDateTime)
18616: Procedure WriteObjectResourceHeader( ObjStream, Output : TStream)
18617: Procedure Write16bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18618: Procedure Write32bitResourceHeader( const AName : TBytes; DataSize : Integer; Output : TStream)
18619: Procedure WriteDataSetToCSV(DataSet: TDataSet; FileName: String)');
18620: procedure WStrSet(c : AnyString; I : Integer; var s : AnyString);
18621: procedure XMLSyntax1Click(Sender: TObject);
18622: Procedure XOR_Streams2( Dest, Srce : TMemoryStream)
18623: Procedure XOR_Streams3( Dest, SrceA, SrceB : TMemoryStream)
18624: Procedure ZeroFillStream( Stream : TMemoryStream)
18625: procedure XMLSyntax1Click(Sender: TObject);
18626: Procedure ZeroMemory( Ptr : Pointer; Length : Longint)
18627: procedure(Control: TWinControl; Index: Integer; Rect: TRect; State: Byte)
18628: procedure(Control: TWinControl; Index: Integer; var Height: Integer)
18629: procedure(Sender, Source: TObject; X, Y: Integer; State: TDragState; var Accept: Boolean)
18630: procedure(Sender, Source: TObject;X, Y: Integer)
18631: procedure(Sender, Target: TObject; X, Y: Integer)
18632: procedure(Sender: TObject; ASection, AWidth: Integer)
18633: procedure(Sender: TObject; ScrollCode: TScrollCode;var ScrollPos: Integer)
18634: procedure(Sender: TObject; Shift: TShiftState; X, Y: Integer);
18635: procedure(Sender: TObject; var Action: TCloseAction)
18636: procedure(Sender: TObject; var CanClose: Boolean)
18637: procedure(Sender: TObject; var Key: Char);
18638: ProcedureName ProcedureNames ProcedureParametersCursor @
18639:
18640: *****Now Constructors constructor *****
18641: Size is: 1248 1115 996 628 550 544 501 459 (381)
18642: Attach( VersionInfoData : Pointer; Size : Integer)
18643: constructor Create( ABuckets : TBucketListSizes)
18644: Create( ACallBackWnd : HWND)
18645: Create( AClient : TCustomTaskDialog)
18646: Create( AClient : TIIdTelnet)
18647: Create( ACollection : TCollection)
18648: Create( ACollection : TFavoriteLinkItems)
18649: Create( ACollection : TTaskDialogButtons)
18650: Create( AConnection : TIIdCustomHTTP)
18651: Create( ACreateSuspended : Boolean)
18652: Create( ADataSet : TCustomSQLDataSet)
18653: CREATE( ADATASET : TDATASET)
18654: Create( Aggregates : TAggregates; ADataSet : TCustomClientDataSet);
18655: Create( AGrid : TCustomDBGrid)
18656: Create( AGrid : TStringGrid; AIndex : Longint)
18657: Create( AHTTP : TIIdCustomHTTP)
18658: Create( AListItems : TListItems)
18659: Create( AOnBytesRemoved : TIIdBufferBytesRemoved)
18660: Create( AOnBytesRemoved : TIIdBufferBytesRemoved)
18661: Create( AOwner : TCommonCalendar)
18662: Create( AOwner : TComponent)
18663: CREATE( AOWNER : TCOMPONENT)
18664: Create( AOwner : TCustomListView)
18665: Create( AOwner : TCustomOutline)
18666: Create( AOwner : TCustomRichEdit)
18667: Create( AOwner : TCustomRichEdit; AttributeType : TAttributeType)

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18668: Create( AOwner : TCustomTreeView)
18669: Create( AOwner : TIdUserManager)
18670: Create( AOwner : TListItems)
18671: Create(AOwner:TObj;Handle:hDBICur;CBTyp:CBType;CBBuf:Ptr;CBBufSiz:Int;CallbkEvt:TBDECallbkEvt;Chain:Bool)
18672: CREATE( AOWNER : TPERSISTENT)
18673: Create( AOwner : TPersistent)
18674: Create( AOwner : TTable)
18675: Create( AOwner : TTreeNodes)
18676: Create( AOwner : TWinControl; const ClassName : string)
18677: Create( AParent : TIdCustomHTTP)
18678: Create( AParent : TUpdateTree; AResolver : TCustomResolver)
18679: Create( AProvider : TBaseProvider)
18680: Create( AProvider : TCustomProvider);
18681: Create( AProvider : TDataSetProvider)
18682: Create( ASocket : TCustomWinSocket; TimeOut : Longint)
18683: Create( ASocket : TSocket)
18684: Create( AStrings : TWideStrings)
18685: Create( AToolBar : TToolBar)
18686: Create( ATreeNodes : TTreeNodes)
18687: Create( Autofill : boolean)
18688: Create( AWebPageInfo : TAbstractWebPageInfo)
18689: Create( AWebRequest : TWebRequest)
18690: Create( Collection : TCollection)
18691: Create( Collection : TIdMessageParts; ABody : TStrings)
18692: Create( Collection : TIdMessageParts; const AFileName : TFileName)
18693: Create( Column : TColumn)
18694: Create( const AConvFamily : TConvFamily; const ADescription : string)
18695: Create( const AConvFamily : TConvFamily; const ADescription : string; const AFactor : Double)
18696: Create( const AConvFamily : TConvFamily; const ADescription : string; const AToCommonProc,
  AFromCommonProc : TConversionProc)
18697: Create( const AInitialState : Boolean; const AManualReset : Boolean)
18698: Create( const ATabSet : TTabSet)
18699: Create( const Compensate : Boolean)
18700: Create( const FileMap : TJclCustomFileMapping; Access, Size : Cardinal; ViewOffset : Int64)
18701: Create( const FileName : string)
18702: Create( const FileName : string; FileMode:Cardinal; const Name:string; Protect:Cardinal; const MaximumSize
  : Int64; const SecAttr: PSecurityAttributes);
18703: Create( const FileName : string; FileMode : WordfmShareDenyWrite)
18704: Create( const MaskValue : string)
18705: Create(const Name:string; Protect:Cardinal;const MaximumSize:Int64;const SecAttr:PSecurityAttributes)
18706: Create( const Prefix : string)
18707: Create( const sRegularExpression : string; xFlags : TniRegularExpressionMatchFlags)
18708: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18709: Create( const sRule : string; xFlags : TniRegularExpressionMatchFlags)
18710: Create( CoolBar : TCoolBar)
18711: Create( CreateSuspended : Boolean; ASocket : TServerClientWinSocket)
18712: Create( CreateSuspended : Boolean; ASocket : TServerWinSocket)
18713: Create( DataSet : TDataSet; const
  Text:Widestring;Options:TFilterOptions;ParserOptions:TParserOptions;const FieldName : Widestring;
  DepFields : TBits; FieldMap : TFieldMap)
18714: Create( DBCtrlGrid : TDBCtrlGrid)
18715: Create( DSTableProducer : TDSTableProducer)
18716: Create( DSTableProducer : TDSTableProducer; ColumnClass : THTMLTableColumnClass)
18717: Create( ErrorCode : DBIResult)
18718: Create( Field : TBlobField; Mode : TBlobStreamMode)
18719: Create( Grid : TCustomDBGrid; ColumnClass : TColumnClass)
18720: Create( HeaderControl : TCustomHeaderControl)
18721: Create( HTTPRequest : TWebRequest)
18722: Create( iStart : integer; sText : string)
18723: Create( iValue : Integer)
18724: Create( Kind : TMmTimerKind; Notification : TMmNotificationKind)
18725: Create( MciErrNo : MCIERROR; const Msg : string)
18726: Create(MemoryStream:TCustomMemStream;FreeStream:Boolean;const AIndexOption:TJclMappedTextReaderIndex);
18727: Create( Message : string; ErrorCode : DBResult)
18728: Create( Msg : string)
18729: Create( NativeError, Context : string; ErrCode, PrevError : Integer; E : Exception)
18730: Create( NativeError, Context : string; ErrorCode, PreviousError : DBResult)
18731: Create( oExpression : TniRegularExpression; eType : TniRegularExpressionStateType)
18732: Create( oOwner : TniRegularExpression; xFlags : TniRegularExpressionMatchFlags)
18733: Create(oSource:TniRegularExpressionState;oDestination:TniRegularExpressionState;xCharacts:TCharSet;bLambda:bool)
18734: Create( Owner : EDBEngineError; ErrorCode : DBIResult; NativeError : Longint; Message : PChar)
18735: Create( Owner : TCustomComboBoxEx)
18736: CREATE( OWNER : TINDEXDEFS; const NAME, FIELDS: String; OPTIONS: TINDEXOPTIONS)
18737: Create( Owner : TPersistent)
18738: Create( Params : TStrings)
18739: Create( Size : Cardinal)
18740: Create( Socket : TSocket; ServerWinSocket : TServerWinSocket)
18741: Create( StatusBar : TCustomStatusBar)
18742: Create( WebDispatcher : TCustomWebDispatcher; ItemClass : TCollectionItemClass)
18743: Create( WebResponse : TWebResponse; ItemClass : TCollectionItemClass)
18744: Create(AHandle:Integer)
18745: Create(AOwner: TComponent); virtual;
18746: Create(const AURI : string)
18747: Create(FileName:String;Mode:Word)
18748: Create(Instance:THandle;ResName:String;ResType:PChar)
18749: Create(Stream : TStream)
18750: Create( ADataset : TDataset);
18751: Create( const FileHandle:THandle; const Name:string;Protect:Cardinal;const MaximumSize:Int64;const
  SecAttr:PSecurityAttributes);

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18752: Create1( const FileName : string; const AIndexOption : TJclMappedTextReaderIndex);
18753: Create2( Other : TObject);
18754: CreateAt(FileMap: TJclCustomFileMapping; Access,Size:Cardinal;ViewOffset:Int64;Address: Pointer)
18755: CreateError(const anErrCode: Integer;const asReplyMessage: string; const asErrorMessage: string)
18756: CreateFmt( MciErrNo : MCIERRO; const Msg : string; const Args : array of const )
18757: CreateFromId(Instance:THandle;ResId:Integer;ResType:PChar)
18758: CreateLinked( DBCtrlGrid : TDBCctrlGrid)
18759: CREATENEW(AOWNER:TCOMPONENT; Dummy: Integer)
18760: CreateRes( Ident : Integer);
18761: CreateRes( MciErrNo : MCIERRO; Ident : Integer)
18762: CreateRes( ResStringRec : PResStringRec);
18763: CreateResHelp( Ident : Integer; AHelpContext : Integer);
18764: CreateResHelp( ResStringRec : PResStringRec; AHelpContext : Integer);
18765: CreateShadow( AOwner : TComponent; ControlSide : TControlSide)
18766: CreateSize( AWidth, AHeight : Integer)
18767: Open( const Name : string; const InheritHandle : Boolean; const DesiredAccess : Cardinal)
18768:
18769: -----
18770: unit UPSI_MathMax;
18771: -----
18772: CONSTS
18773: Bernstein: Float = 0.2801694990238691330364364912307; // Bernstein constant
18774: Cbrt2: Float = 1.2599210498948731647672106072782; // CubeRoot(2)
18775: Cbrt3: Float = 1.4422495703074083823216383107801; // CubeRoot(3)
18776: Cbrt10: Float = 2.1544346900318837217592935665194; // CubeRoot(10)
18777: Cbrt100: Float = 4.6415888336127788924100763509194; // CubeRoot(100)
18778: CbrtPi: Float = 1.4645918875615232630201425272638; // CubeRoot(PI)
18779: Catalan: Float = 0.91596559417721901505460315149324; // Catalan constant
18780: PiJ: Float = 3.1415926535897932384626433832795; // PI
18781: PI: Extended = 3.1415926535897932384626433832795;
18782: PiOn2: Float = 1.5707963267948966192313216916398; // PI / 2
18783: PiOn3: Float = 1.0471975511965977461542144610932; // PI / 3
18784: PiOn4: Float = 0.78539816339744830961566084581988; // PI / 4
18785: Sqrt2: Float = 1.4142135623730950488016887242097; // Sqrt(2)
18786: Sqrt3: Float = 1.7320508075688772935274463415059; // Sqrt(3)
18787: Sqrt5: Float = 2.2360679774997896964091736687313; // Sqrt(5)
18788: Sqrt10: Float = 3.162277660168379331998893544327; // Sqrt(10)
18789: SqrtPi: Float = 1.7724538509055160272981674833411; // Sqrt(PI)
18790: Sqrt2Pi: Float = 2.506628274631000502415765284811; // Sqrt(2 * PI)
18791: TwoPi: Float = 6.283185307179586476925286766559; // 2 * PI
18792: ThreePi: Float = 9.4247779607693797153879301498385; // 3 * PI
18793: Ln2: Float = 0.69314718055994530941723212145818; // Ln(2)
18794: Ln10: Float = 2.302580929940456840179914546844; // Ln(10)
18795: LnPi: Float = 1.1447298858494001741434273513531; // Ln(PI)
18796: Log2J: Float = 0.30102999566398119521373889472449; // Log10(2)
18797: Log3: Float = 0.47712125471966243729502790325512; // Log10(3)
18798: LogPi: Float = 0.4971498726941338543512682882909; // Log10(PI)
18799: LogE: Float = 0.43429448190325182765112891891661; // Log10(E)
18800: E: Float = 2.7182818284590452353602874713527; // Natural constant
18801: hLn2Pi: Float = 0.91893853320467274178032973640562; // Ln(2^PI)/2
18802: inv2Pi: Float = 0.15915494309189533576888376337251436203445964574046; // 0.5/Pi
18803: TwoToPower63: Float = 9223372036854775808.0; // 2^63
18804: GoldenMean: Float = 1.618033988749894848204586834365638; // GoldenMean
18805: EulerMascheroni: Float = 0.5772156649015328606065120900824; // Euler GAMMA
18806: RadCor: Double = 57.29577951308232; {number of degrees in a radian}
18807: StDelta : Extended = 0.00001; {delta for difference equations}
18808: StEpsilon : Extended = 0.00001; {epsilon for difference equations}
18809: StMaxIterations : Integer = 100; {max attempts for convergence}
18810:
18811: procedure SIRegister_StdConvs(CL: TPSPPascalCompiler);
18812: begin
18813:   MetersPerInch = 0.0254; // [1]
18814:   MetersPerFoot = MetersPerInch * 12;
18815:   MetersPerYard = MetersPerFoot * 3;
18816:   MetersPerMile = MetersPerFoot * 5280;
18817:   MetersPerNauticalMiles = 1852;
18818:   MetersPerAstronomicalUnit = 1.49598E11; // [4]
18819:   MetersPerLightSecond = 2.99792458E8; // [5]
18820:   MetersPerLightYear = MetersPerLightSecond * 31556925.9747; // [7]
18821:   MetersPerParsec = MetersPerAstronomicalUnit * 206264.806247096; // 60 * 60 * (180 / Pi)
18822:   MetersPerCubit = 0.4572; // [6][?]
18823:   MetersPerFathom = MetersPerFoot * 6;
18824:   MetersPerFurlong = MetersPerYard * 220;
18825:   MetersPerHand = MetersPerInch * 4;
18826:   MetersPerPace = MetersPerInch * 30;
18827:   MetersPerRod = MetersPerFoot * 16.5;
18828:   MetersPerChain = MetersPerRod * 4;
18829:   MetersPerLink = MetersPerChain / 100;
18830:   MetersPerPoint = MetersPerInch * 0.013837; // [7]
18831:   MetersPerPica = MetersPerPoint * 12;
18832:
18833:   SquareMetersPerSquareInch = MetersPerInch * MetersPerInch;
18834:   SquareMetersPerSquareFoot = MetersPerFoot * MetersPerFoot;
18835:   SquareMetersPerSquareYard = MetersPerYard * MetersPerYard;
18836:   SquareMetersPerSquareMile = MetersPerMile * MetersPerMile;
18837:   SquareMetersPerAcres = SquareMetersPerSquareYard * 4840;
18838:   SquareMetersPerSquareRod = MetersPerRod * MetersPerRod;
18839:
18840:   CubicMetersPerCubicInch = MetersPerInch * MetersPerInch * MetersPerInch;

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18841: CubicMetersPerCubicFoot = MetersPerFoot * MetersPerFoot * MetersPerFoot;
18842: CubicMetersPerCubicYard = MetersPerYard * MetersPerYard * MetersPerYard;
18843: CubicMetersPerCubicMile = MetersPerMile * MetersPerMile * MetersPerMile;
18844: CubicMetersPerAcreFoot = SquareMetersPerAcre * MetersPerFoot;
18845: CubicMetersPerAcreInch = SquareMetersPerAcre * MetersPerInch;
18846: CubicMetersPerCord = CubicMetersPerCubicFoot * 128;
18847: CubicMetersPerCordFoot = CubicMetersPerCubicFoot * 16;
18848:
18849: CubicMetersPerUSFluidGallon = CubicMetersPerCubicInch * 231; // [2][3][7]
18850: CubicMetersPerUSFluidQuart = CubicMetersPerUSFluidGallon / 4;
18851: CubicMetersPerUSFluidPint = CubicMetersPerUSFluidQuart / 2;
18852: CubicMetersPerUSFluidCup = CubicMetersPerUSFluidPint / 2;
18853: CubicMetersPerUSFluidGill = CubicMetersPerUSFluidCup / 2;
18854: CubicMetersPerUSFluidOunce = CubicMetersPerUSFluidCup / 8;
18855: CubicMetersPerUSFluidTablespoon = CubicMetersPerUSFluidOunce / 2;
18856: CubicMetersPerUSFluidTeaspoon = CubicMetersPerUSFluidOunce / 6;
18857:
18858: CubicMetersPerUSDryGallon = CubicMetersPerCubicInch * 268.8025; // [7]
18859: CubicMetersPerUSDryQuart = CubicMetersPerUSDryGallon / 4;
18860: CubicMetersPerUSDryPint = CubicMetersPerUSDryQuart / 2;
18861: CubicMetersPerUSDryPeck = CubicMetersPerUSDryGallon * 2;
18862: CubicMetersPerUSDryBucket = CubicMetersPerUSDryPeck * 2;
18863: CubicMetersPerUSDryBushel = CubicMetersPerUSDryBucket * 2;
18864:
18865: CubicMetersPerUKGallon = 0.00454609; // [2][7]
18866: CubicMetersPerUKPottle = CubicMetersPerUKGallon / 2;
18867: CubicMetersPerUKQuart = CubicMetersPerUKPottle / 2;
18868: CubicMetersPerUKPint = CubicMetersPerUKQuart / 2;
18869: CubicMetersPerUKGill = CubicMetersPerUKPint / 4;
18870: CubicMetersPerUKOunce = CubicMetersPerUKPint / 20;
18871: CubicMetersPerUKPeck = CubicMetersPerUKGallon * 2;
18872: CubicMetersPerUKBucket = CubicMetersPerUKPeck * 2;
18873: CubicMetersPerUKBushel = CubicMetersPerUKBucket * 2;
18874:
18875: GramsPerPound = 453.59237; // [1][7]
18876: GramsPerDrams = GramsPerPound / 256;
18877: GramsPerGrains = GramsPerPound / 7000;
18878: GramsPerTons = GramsPerPound * 2000;
18879: GramsPerLongTons = GramsPerPound * 2240;
18880: GramsPerOunces = GramsPerPound / 16;
18881: GramsPerStones = GramsPerPound * 14;
18882:
18883: MaxAngle 9223372036854775808.0;
18884: MaxTanH 5678.2617031470719747459655389854);
18885: MaxFactorial( 1754);
18886: MaxFloatingPoint(1.189731495357231765085759326628E+4932);
18887: MinFloatingPoint(,(3.3621031431120935062626778173218E-4932);
18888: MaxTanH( 354.89135644669199842162284618659);
18889: MaxFactorial'LongInt'( 170);
18890: MaxFloatingPointD(1.797693134862315907729305190789E+308);
18891: MinFloatingPointD(2.2250738585072013830902327173324E-308);
18892: MaxTanH( 44.361419555836499802702855773323);
18893: MaxFactorial'LongInt'( 33);
18894: MaxFloatingPoints( 3.4028236692093846346337460743177E+38);
18895: MinFloatingPoints( 1.1754943508222875079687365372222E-38);
18896: PiExt( 3.1415926535897932384626433832795);
18897: RatioDegToRad( PiExt / 180.0);
18898: RatioGradToRad( PiExt / 200.0);
18899: RatioDegToGrad( 200.0 / 180.0);
18900: RatioGradToDeg( 180.0 / 200.0);
18901: Crc16PolynomCCITT'LongWord $1021);
18902: Crc16PolynomIBM'LongWord $8005);
18903: Crc16Bits'LongInt'( 16);
18904: Crc16Bytes'LongInt'( 2);
18905: Crc16HighBit'LongWord $8000);
18906: NotCrc16Highbit', 'LongWord $7FFF);
18907: Crc32PolynomIEEE', 'LongWord $04C11DB7);
18908: Crc32PolynomCastagnoli', 'LongWord $1EDC6F41);
18909: Crc32Koopman', 'LongWord $741B8CD7);
18910: Crc32Bits', 'LongInt'( 32);
18911: Crc32Bytes', 'LongInt'( 4);
18912: Crc32HighBit', 'LongWord $80000000);
18913: NotCrc32HighBit', 'LongWord $7FFFFFFF);
18914:
18915: MinByte      = Low(Byte);
18916: MaxByte      = High(Byte);
18917: MinWord      = Low(Word);
18918: MaxWord      = High(Word);
18919: MinShortInt = Low(ShortInt);
18920: MaxShortInt = High(ShortInt);
18921: MinSmallInt = Low(SmallInt);
18922: MaxSmallInt = High(SmallInt);
18923: MinLongWord = LongWord(Low(LongWord));
18924: MaxLongWord = LongWord(High(LongWord));
18925: MinLongInt = LongInt(Low(LongInt));
18926: MaxLongInt = LongInt(High(LongInt));
18927: MinInt64    = Int64(Low(Int64));
18928: MaxInt64    = Int64(High(Int64));
18929: MinInteger = Integer(Low(Integer));

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18930: MaxInteger = Integer(High(Integer));
18931: MinCardinal = Cardinal(Low(Cardinal));
18932: MaxCardinal = Cardinal(High(Cardinal));
18933: MinNativeUInt = NativeUInt(Low(NativeUInt));
18934: MaxNativeUInt = NativeUInt(High(NativeUInt));
18935: MinNativeInt = NativeInt(Low(NativeInt));
18936: MaxNativeInt = NativeInt(High(NativeInt));
18937: Function CosH( const Z : Float ) : Float;
18938: Function SinH( const Z : Float ) : Float;
18939: Function TanH( const Z : Float ) : Float;
18940:
18941:
18942: //*****from DMath.Dll Lib of types.inc in source\dmath_dll
18943: InvLn2 = 1.44269504088896340736; { 1/Ln(2) }
18944: InvLn10 = 0.43429448190325182765; { 1/Ln(10) }
18945: TwoPi = 6.28318530717958647693; { 2*Pi }
18946: PiDiv2 = 1.57079632679489661923; { Pi/2 }
18947: SqrtPi = 1.77245385090551602730; { Sqrt(Pi) }
18948: Sqrt2Pi = 2.50662827463100050242; { Sqrt(2*Pi) }
18949: InvSqrt2Pi = 0.39894228040143267794; { 1/Sqrt(2*Pi) }
18950: LnSqrt2Pi = 0.91893853320467274178; { Ln(Sqrt(2*Pi)) }
18951: Ln2PiDiv2 = 0.91893853320467274178; { Ln(2*Pi)/2 }
18952: Sqrt2 = 1.41421356237309504880; { Sqrt(2) }
18953: Sqrt2Div2 = 0.70710678118654752440; { Sqrt(2)/2 }
18954: Gold = 1.61803398874989484821; { Golden Mean = (1 + Sqrt(5))/2 }
18955: CGold = 0.38196601125010515179; { 2 - GOLD }
18956: MachEp = 2.220446049250313E-16; { 2^(-52) }
18957: MaxNum = 1.797693134862315E+308; { 2^1024 }
18958: MinNum = 2.225073858507202E-308; { 2^(-1022) }
18959: MaxLog = 709.7827128933840;
18960: MinLog = -708.3964185322641;
18961: MaxFac = 170;
18962: MaxGam = 171.624376956302;
18963: MaxLgm = 2.556348E+305;
18964: SingleCompareDelta = 1.0E-34;
18965: DoubleCompareDelta = 1.0E-280;
18966: {$IFDEF CLR}
18967: ExtendedCompareDelta = DoubleCompareDelta;
18968: {$ELSE}
18969: ExtendedCompareDelta = 1.0E-4400;
18970: {$ENDIF}
18971: Bytes1KB = 1024;
18972: Bytes1MB = 1024 * Bytes1KB;
18973: Bytes1GB = 1024 * Bytes1MB;
18974: Bytes64KB = 64 * Bytes1KB;
18975: Bytes64MB = 64 * Bytes1MB;
18976: Bytes2GB = 2 * LongWord(Bytes1GB);
18977: clBlack32', $FF000000 );
18978: clDimGray32', $FF3F3F3F );
18979: clGray32', $FF7F7F7F );
18980: clLightGray32', $FFBBBFBF );
18981: clWhite32', $FFFFFF );
18982: clMaroon32', $FF7F0000 );
18983: clGreen32', $FF007F00 );
18984: clOlive32', $FF7F7F00 );
18985: clNavy32', $FF00007F );
18986: clPurple32', $FF7F007F );
18987: clTeal32', $FF007F7F );
18988: clRed32', $FFF00000 );
18989: clLime32', $FF00FF00 );
18990: clYellow32', $FFFFFF00 );
18991: clBlue32', $FF0000FF );
18992: clFuchsia32', $FFFF00FF );
18993: clAqua32', $FF00FFFF );
18994: clAliceBlue32', $FFF0F8FF );
18995: clAntiqueWhite32', $FFFAEBD7 );
18996: clAquamarine32', $FF7FFF04 );
18997: clAzure32', $FFF0FFF );
18998: clBeige32', $FFF5F5DC );
18999: clBisque32', $FFFFFFE4C4 );
19000: clBlancheDalmond32', $FFFFEBBCD );
19001: clBlueViolet32', $FF8A2BE2 );
19002: clBrown32', $FFA52A2A );
19003: clBurlyWood32', $FFDDEB887 );
19004: clCadetblue32', $FF5F9EA0 );
19005: clChartReuse32', $FF7FFF00 );
19006: clChocolate32', $FFD2691E );
19007: clCoral32', $FFFF7F50 );
19008: clCornFlowerBlue32', $FF6495ED );
19009: clCornSilk32', $FFFFF8DC );
19010: clCrimson32', $FFDC143C );
19011: clDarkBlue32', $FF00008B );
19012: clDarkCyan32', $FF008B8B );
19013: clDarkGoldenRod32', $FFB8860B );
19014: clDarkGray32', $FFA9A9A9 );
19015: clDarkGreen32', $FF006400 );
19016: clDarkGrey32', $FFA9A9A9 );
19017: clDarkKhaki32', $FFBDB76B );
19018: clDarkMagenta32', $FF8B008B );

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19019:    clDarkOliveGreen32', $FF556B2F ));  
19020:    clDarkOrange32', $FFFF8C00 ));  
19021:    clDarkOrchid32', $FF9932CC ));  
19022:    clDarkRed32', $FF8B0000 ));  
19023:    clDarkSalmon32', $FFE9967A ));  
19024:    clDarkSeaGreen32', $FF8FB8CF ));  
19025:    clDarkSlateBlue32', $FF483D8B ));  
19026:    clDarkSlateGray32', $FF2F4F4F ));  
19027:    clDarkSlateGrey32', $FF2F4F4F ));  
19028:    clDarkTurquoise32', $FF00CED1 ));  
19029:    clDarkViolet32', $FF9400D3 ));  
19030:    clDeepPink32', $FFFF1493 ));  
19031:    clDeepSkyBlue32', $FF00BFFF ));  
19032:    clDodgerBlue32', $FF1E90FF ));  
19033:    clFireBrick32', $FFB22222 ));  
19034:    clFloralWhite32', $FFFFFFA0 ));  
19035:    clGainsboro32', $FFDCDCDC ));  
19036:    clGhostWhite32', $FFF8F8FF ));  
19037:    clGold32', $FFFFD700 ));  
19038:    clGoldenRod32', $FFDA520 ));  
19039:    clGreenYellow32', $FFADFF2F ));  
19040:    clGrey32', $FF808080 ));  
19041:    clHoneyDew32', $FFF0FF0 ));  
19042:    clHotPink32', $FFFF69B4 ));  
19043:    clIndianRed32', $FFCD5C5C ));  
19044:    clIndigo32', $FF4B0082 ));  
19045:    clIvory32', $FFFFFF0 ));  
19046:    clKhaki32', $FFF0E68C ));  
19047:    clLavender32', $FFEE6B6FA ));  
19048:    clLavenderBlush32', $FFFFF0F5 ));  
19049:    clLawnGreen32', $FF7CFC00 ));  
19050:    clLemonChiffon32', $FFFFFFACD ));  
19051:    clLightBlue32', $FFADD8E6 ));  
19052:    clLightCoral32', $FFD3D3D3 ));  
19053:    clLightCyan32', $FFEOFFFF ));  
19054:    clLightGoldenRodYellow32', $FFFAFAD2 ));  
19055:    clLightGreen32', $FF90EE90 ));  
19056:    clLightGrey32', $FFD3D3D3 ));  
19057:    clLightPink32', $FFFFB6C1 ));  
19058:    clLightSalmon32', $FFFA07A ));  
19059:    clLightSeagreen32', $FF20B2AA ));  
19060:    clLightSkyblue32', $FF87CEFA ));  
19061:    clLightSlategray32', $FF778899 ));  
19062:    clLightSlategrey32', $FF778899 ));  
19063:    clLightSteelblue32', $FFB0C4DE ));  
19064:    clLightYellow32', $FFFFFFE0 ));  
19065:    clLtGray32', $FFC0C0C0 ));  
19066:    clMedGray32', $FFA0AOA4 ));  
19067:    clDkGray32', $FF808080 ));  
19068:    clMoneyGreen32', $FFC0DCC0 ));  
19069:    clLegacySkyBlue32', $FFA6CAF0 ));  
19070:    clCream32', $FFFFFBF0 ));  
19071:    clLimeGreen32', $FF32CD32 ));  
19072:    clLinen32', $FFFAF0E6 ));  
19073:    clMediumAquamarine32', $FF66CDAA ));  
19074:    clMediumBlue32', $FF0000CD ));  
19075:    clMediumOrchid32', $FFBA55D3 ));  
19076:    clMediumPurple32', $FF9370DB ));  
19077:    clMediumSeaGreen32', $FF3CB371 ));  
19078:    clMediumSlateBlue32', $FF7B68EE ));  
19079:    clMediumSpringGreen32', $FF00FA9A ));  
19080:    clMediumTurquoise32', $FF48D1CC ));  
19081:    clMediumVioletRed32', $FFC71585 ));  
19082:    clMidnightBlue32', $FF191970 ));  
19083:    clMintCream32', $FFF5FFA ));  
19084:    clMistyRose32', $FFFFE4E1 ));  
19085:    clMoccasin32', $FFFFE4B5 ));  
19086:    clNavajoWhite32', $FFFFDEAD ));  
19087:    clOldLace32', $FFDF5E6 ));  
19088:    clOliveDrab32', $FF688E23 ));  
19089:    clOrange32', $FFFA500 ));  
19090:    clOrangeRed32', $FFFF4500 ));  
19091:    clOrchid32', $FFDA70D6 ));  
19092:    clPaleGoldenRod32', $FFEEE8AA ));  
19093:    clPaleGreen32', $FF98FB98 ));  
19094:    clPaleTurquoise32', $FFAFEEEE ));  
19095:    clPaleVioletred32', $FFDB7093 ));  
19096:    clPapayaWhip32', $FFFFEF5 ));  
19097:    clPeachPuff32', $FFFFDAB9 ));  
19098:    clPeru32', $FFCD853F ));  
19099:    clPlum32', $FFDDA0DD ));  
19100:    clPowderBlue32', $FFB0E0E6 ));  
19101:    clRosyBrown32', $FFBC8F8F ));  
19102:    clRoyalBlue32', $FF4169E1 ));  
19103:    clSaddleBrown32', $FF8B4513 ));  
19104:    clSalmon32', $FFFA8072 ));  
19105:    clSandyBrown32', $FFF4AA460 ));  
19106:    clSeaGreen32', $FF2E8B57 ));  
19107:    clSeaShell32', $FFFFF5EE ));
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19108:   clSienna32', $FFA0522D ));
19109:   clSilver32', $FFC0C0C0 ));
19110:   clSkyblue32', $FF87CEEB ));
19111:   clSlateBlue32', $FF6A5ACD ));
19112:   clSlateGray32', $FF708090 ));
19113:   clSlateGrey32', $FF708090 ));
19114:   clSnow32', $FFFFFFFAFA ));
19115:   clSpringgreen32', $FF00FF7F ));
19116:   clSteelblue32', $FF4682B4 ));
19117:   clTan32', $FFD2B48C ));
19118:   clThistle32', $FFD8BF08 ));
19119:   clTomato32', $FFFF6347 ));
19120:   clTurquoise32', $FF40E0D0 ));
19121:   clViolet32', $FFEE82EE ));
19122:   clWheat32', $FFF5DEB3 ));
19123:   clWhitesmoke32', $FFF5F5F5 ));
19124:   clYellowgreen32', $FF9ACD32 ));
19125:   clTrWhite32', $7FFFFFFF ));
19126:   clTrBlack32', $7F000000 ));
19127:   clTrRed32', $7FFF0000 ));
19128:   clTrGreen32', $7F00FF00 ));
19129:   clTrBlue32', $7F0000FF ));
19130: // Fixed point math constants
19131: FixedOne = $10000; FixedHalf = $7FFF;
19132: FixedPI = Round(PI * FixedOne);
19133: FixedToFloat = 1/FixedOne;
19134:
19135: Special Types
19136: ****
19137: type Complex = record
19138:   X, Y : Float;
19139: end;
19140: type TVector      = array of Float;
19141: TIntVector     = array of Integer;
19142: TCompVector    = array of Complex;
19143: TBoolVector    = array of Boolean;
19144: TStringVector  = array of String;
19145: TMatrix        = array of TVector;
19146: TIntMatrix     = array of TIntVector;
19147: TCompMatrix    = array of TCompVector;
19148: TBoolMatrix    = array of TBoolVector;
19149: TStringMatrix = array of TString;
19150: TByteArray     = array[0..32767] of byte; !
19151: THexArray      = array [0..15] of Char; // = '0123456789ABCDEF';
19152: TBitmapStyle   = (bsNormal, bsCentered, bsStretched);
19153: TStringArray   = array of array of string;
19154: TIntegerArray  = array of array of integer;
19155: AddTypeS('INT_PTR', 'Integer');
19156: AddTypeS('LONG_PTR', 'Integer');
19157: AddTypeS('UINT_PTR', 'Cardinal');
19158: AddTypeS('ULONG_PTR', 'Cardinal');
19159: AddTypeS('DWORD_PTR', 'ULONG_PTR');
19160: TIntegerDynArray', 'array of Integer;
19161: TCardinalDynArray', 'array of Cardinal;
19162: TWordDynArray', 'array of Word;
19163: TSmallIntDynArray', 'array of SmallInt;
19164: TByteDynArray', 'array of Byte;
19165: TShortIntDynArray', 'array of ShortInt;
19166: TInt64DynArray', 'array of Int64;
19167: TLongWordDynArray', 'array of LongWord;
19168: TSsingleDynArray', 'array of Single;
19169: TDoubleDynArray', 'array of Double;
19170: TBooleanDynArray', 'array of Boolean;
19171: TStringDynArray', 'array of string;
19172: TWideStringDynArray', 'array of WideString;
19173: TDynByteArray  = array of Byte;
19174: TDynShortintArray = array of Shortint;
19175: TDynSmallintArray = array of Smallint;
19176: TDynWordArray   = array of Word;
19177: TDynIntegerArray = array of Integer;
19178: TDynLongintArray = array of Longint;
19179: TDynCardinalArray = array of Cardinal;
19180: TDynInt64Array  = array of Int64;
19181: TDynExtendedArray = array of Extended;
19182: TDynDoubleArray = array of Double;
19183: TDynSingleArray = array of Single;
19184: TDynFloatArray  = array of Float;
19185: TDynPointerArray = array of Pointer;
19186: TDynStringArray = array of string;
19187: TSynSearchOption = (ssoMatchCase, ssoWholeWord, ssoBackwards,
19188:   ssoEntireScope, ssoSelectedOnly, ssoReplace, ssoReplaceAll, ssoPrompt);
19189: TSynSearchOptions = set of TSynSearchOption;
19190:
19191:
19192: /* Project : Base Include RunTime Lib for maxbox *Name: pas_includebox.inc
19193: -----
19194: procedure drawPolygon(vPoints: TXYVector; cFrm: TForm);
19195: procedure drawPlot(vPoints: TXYVector; cFrm: TForm; vcolor: integer);
19196: procedure SaveCanvas(vCanvas: TCanvas; FileName: string);

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19197: procedure SaveCanvas2(vCanvas: TCanvas; FileName: string);
19198: function CheckStringSum(vstring: string): integer;
19199: function HexToInt(HexNum: string): LongInt;
19200: function IntToBin(Int: Integer): String;
19201: function BinToInt(Binary: String): Integer;
19202: function HexToBin(HexNum: string): string; external2
19203: function BinToHex(Binary: String): string;
19204: function IntToFloat(i: Integer): double;
19205: function AddThousandSeparator(S: string; myChr: Char): string;
19206: function Max3(const X,Y,Z: Integer): Integer;
19207: procedure Swap(var X,Y: char); // faster without inline
19208: procedure ReverseString(var S: String);
19209: function CharToHexStr(Value: Char): string;
19210: function CharToUniCode(Value: Char): string;
19211: function Hex2Dec(Value: Str002): Byte;
19212: function HexStrCodeToStr(Value: string): string;
19213: function HexToStr(i: integer; value: string): string;
19214: function UniCodeToStr(Value: string): string;
19215: function CRC16(statement: string): string;
19216: function SearchForSubstrings(aStrList: TStrings; aSearchStr1, aSearchStr2: string): string;
19217: procedure SearchAndReplace(aStrList: TStrings; aSearchStr, aNewStr: string);
19218: procedure SearchAndCopy(aStrList: TStrings; aSearchStr, aNewStr: string; offset: integer);
19219: Procedure ExecuteCommand(executeFile, paramstring: string);
19220: Procedure ShellExecuteAndWait(executeFile, paramstring: string);
19221: function ExecConsoleApp(const AppName, Parameters: String; AppOutput: TStrings): DWORD;
19222: procedure SearchAndOpenDoc(vfilenamepath: string);
19223: procedure ShowInterfaces(myFile: string);
19224: function Fact2(av: integer): extended;
19225: Function BoolToStr(B: Boolean): string;
19226: Function GCD(x, y : LongInt) : LongInt;
19227: function LCM(m,n: longint): longint;
19228: function GetASCII: string;
19229: function GetItemHeight(Font: TFont): Integer;
19230: function myPlaySound(s: pchar; flag,syncflag: integer): boolean;
19231: function myGetWindowsDirectory(lpBuffer: PChar; uSize: longword): longword;
19232: function getHINSTANCE: longword;
19233: function getHMODULE: longword;
19234: function GetASCII: string;
19235: function ByteIsOk(const AByte: string; var VB: Byte): boolean;
19236: function WordIsOk(const AWord: string; var VW: Word): boolean;
19237: function TwentyFourBitValueisOk(const AValue: string; var VI: Integer): boolean;
19238: function LongIsOk(const ALong: string; var VC: Cardinal): boolean;
19239: function SafeStr(const s: string): string;
19240: function ExtractUrlPath(const FileName: string): string;
19241: function ExtractUrlName(const FileName: string): string;
19242: function IsInternet: boolean;
19243: function RotateLeft1Bit_u32( Value: uint32): uint32;
19244: procedure LinearRegression(const KnownY:array of Double;const KnownX: array of Double;NData:Int;var LF:TStLinEst; ErrorStats : Boolean);
19245: procedure getEnvironmentInfo;
19246: procedure AntiFreeze;
19247: function GetCPUSpeed: Double;
19248: function IsVirtualPcGuest : Boolean;
19249: function IsVmWareGuest : Boolean;
19250: procedure StartSerialDialog;
19251: function IsWoW64: boolean;
19252: function IsWow64String(var s: string): Boolean;
19253: procedure StartThreadDemo;
19254: Function RGB(R,G,B: Byte): TColor;
19255: Function Sendln(amess: string): boolean;
19256: Procedure maxbox;
19257: Function AspectRatio(aWidth, aHeight: Integer): String;
19258: function wget(aURL, afile: string): boolean;
19259: procedure PrintList(Value: TStringList);
19260: procedure PrintImage(aValue: TBitmap; Style: TBitmapStyle);
19261: procedure getEnvironmentInfo;
19262: procedure AntiFreeze;
19263: function getBitmap(apath: string): TBitmap;
19264: procedure ShowMessageBig(const aText : string);
19265: function YesNoDialog(const ACaption, AMsg: string): boolean;
19266: procedure SetArrayLength2String(arr: T2StringArray; asize1, asize2: integer);
19267: procedure SetArrayLength2Integer(arr: T2IntegerArray; asize1, asize2: integer);
19268: //function myStrToBytes(const Value: String): TBytes;
19269: //function myBytesToStr(const Value: TBytes): String;
19270: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19271: function getBitmap(apath: string): TBitmap;
19272: procedure ShowMessageBig(const aText : string);
19273: Function StrToBytes(const Value: String): TBytes;
19274: Function BytesToStr(const Value: TBytes): String;
19275: function SaveAsExcelFile(AGrid: TStringGrid; ASheetName, AFileName: string; open: boolean): Boolean;
19276: function ReverseDNSLookup(const IPAdrs:String;const DNSServer:String;Timeout,Retries:Int;var HostName:String):Bool;
19277: function FindInPaths(const fileName, paths : String) : String;
19278: procedure initHexArray(var hexn: THexArray);
19279: function josephusG(n,k: integer; var graphout: string): integer;
19280: function isPowerof2(num: int64): boolean;
19281: function powerOf2(exponent: integer): int64;
19282: function getBigPI: string;
19283: procedure MakeSound(Frequency{Hz}, Duration{mSec}: Integer; Volume: TVolumeLevel; savefilePath: string);

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19284: function GetASCIILine: string;
19285: procedure MakeComplexSound(N:integer{stream # to use}; freqlist:TStrings; Duration{mSec}: Integer;
19286:                               pinknoise: boolean; shape: integer; Volume: TVolumeLevel);
19287: procedure SetComplexSoundElements(freqedt,Phaseedt,AmpEdt,WaveGrp:integer);
19288: procedure AddComplexSoundObjectToList(newf,newp,newa,newn:integer; freqlist: TStrings);
19289: function mapfunc(ax, in_min, in_max, out_min, out_max: integer): integer;
19290: function mapmax(ax, in_min, in_max, out_min, out_max: integer): integer;
19291: function isKeyPressed: boolean;
19292: function Keypress: boolean;
19293: procedure StrSplitP(const Delimiter: Char; Input: string; const Strings: TStrings);
19294: function ReadReg(Base: HKEY; KeyName, ValueName: string): string;
19295: function ReadRegistry(Base: HKEY; KeyName, ValueName: string): string;
19296: function GetOSName: string;
19297: function GetOSVersion: string;
19298: function GetOSNumber: string;
19299: function getEnvironmentString: string;
19300: procedure StrReplace(var Str: String; Old, New: String);
19301: procedure SendEmail(mFrom, mTo, mSubject, mBody, mAttachment: variant);
19302: function getTeamViewerID: string;
19303: Procedure RecurseDirectory(Dir:String; IncludeSubs:boolean; callback:TFileCallbackProcedure);
19304: Procedure RecurseDirectory2(Dir : String; IncludeSubs : boolean);
19305: procedure WinInet_HttpGet(const Url: string; Stream:TStream);
19306: procedure GetQrCode2(Width,Height: Word;Correct_Level:string;const Data:string;apath:string);
19307: function StartSocketService: Boolean;
19308: procedure StartSocketServiceForm;
19309: function GetFileList(FileList: TStringlist; apath: string): TStringlist;
19310: function GetFileList1(apath: string): TStringlist;
19311: procedure LetFileList(FileList: TStringlist; apath: string);
19312: procedure StartWeb(aurl: string);
19313: function GetTodayFiles(startdir, amask: string): TStringlist;
19314: function PortTCPIsOpen(dwPort : Word; ipAddressStr: String): boolean;
19315: function JavahashCode(val: string): Integer;
19316: procedure PostKeyEx32(key: Word; const shift: TShiftState; specialkey: Boolean);
19317: procedure SaveBytesToFile2(const Data: Sysutils.TBytes; const FileName: string);
19318: Procedure HideWindowForSeconds(secs: integer); //3 seconds
19319: Procedure HideWindowForSeconds2(secs: integer; apphandle, aself: TForm); //3 seconds
19320: Procedure ConvertToGray(Cnv: TCanvas);
19321: function GetFileDate(aFile:string; aWithTime:Boolean):string;
19322: procedure ShowMemory;
19323: function ShowMemory2: string;
19324: function getHostIP: string;
19325: procedure ShowBitmap(bmap: TBitmap);
19326: function GetOsVersionInfo: TOSVersionInfo; //thx to wischnewski
19327: function CreateDBGridForm(dblist: TStringList): TListbox;
19328: function isService: boolean;
19329: function isApplication: boolean;
19330: function isTerminalSession: boolean;
19331:
19332:
19333: // News of 3.9.8 up
19334: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
19335: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
19336: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
19337: JvChart - TJvChart Component - 2009 Public
19338: MemoryLeakReport in ini-file (MEMORYREPORT=Y)
19339: PerlRegEx PCRE obj lib included, Perl & Python Syntax Editor, bitbox3 logic example
19340: TAdoQuery.SQL.Add() fixed, ShlwAPI extensions, Indy HTTPHeader Extensions
19341: DMath DLL included incl. Demos
19342: Interface Navigator menu/View/Intf Navigator
19343: Unit Explorer menu/Debug/Units Explorer
19344: EKON 16 Slides ..\maxbox3\docs\utils Excel Export maXcel
19345: Tutorial 19 WinCOM with Arduino Tutorial 20 RegEx Coding
19346: Script History to 9 Files WebServer light /Options/Addons/WebServer
19347: Full Text Finder, JVSimLogic Simulator Package
19348: Halt-Stop Program in Menu, WebServer2, Stop Event ,
19349: Conversion Routines, Prebuild Forms, CodeSearch
19350: Halt-Stop Program in Menu, WebServer2, Stop Event Recompile,
19351: Conversion Routines, Prebuild Forms, more RCData, DebugOutString
19352: CodeSearchEngine to search code patterns in /examples <Ctrl F3>
19353: JvChart - TJvChart Component - 2009 Public, mxGames, JvgXMLLoader, TJvPaintFX
19354: Compress-Decompress Zip, Services Tutorial22, Synopse framework, PDFLib
19355: SynEdit API, Macro, Macro Recorder, DLL Spy, Configuration Tutorial
19356: IDE Reflection API, Session Service Shell S3
19357: additional SynEdit API, isKeyPressed Routine, Bookmarks, OpenToolsAPI Catalog (OTAC)
19358: Class TMonitor, Configuration Tutorial maxbox_starter25.pdf, Chess.dll Game
19359: arduino map() function, PRandom Generator
19360: StBarCode Lib, StreamReaderClass, BarCode Package, Astro Package
19361: more ShellAPI, add 32 more units, Simulated Annealing, GenAlgo
19362: REST Test Lib, Multilang Component, Forth Interpreter
19363: New Macros, Sendmail (instant email), DevCUnits, Tetris Addon
19364: DCOM, MDAC, MIDI, TLS support, Posmarks, Utils Addon
19365: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
19366: Routines for LaTeX/PS, Utils Addon, Indy Package3, TAR Archive, @Callbacks
19367: First LCL of Lazarus, CmdLine API, ToDo List, 36 more Units preCompiled
19368: QRCode Service, add more CFunctions like CDateTime of Synapse
19369: Gamma Functions, IndyPackage4, HotLog Threadable, FormTemplateLibrary FTL
19370: Nonlinear regression, ADO Workbench Addon, Assign fixing, IntfNavigator fixing, Applet
19371: 30 more Units preCompiled, QRCode Indy Service, more CFunctions like CFill or SRand
19372: RestartDialog, RTF, SQL Scanner, RichEdit, 15 more Units

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19373: Tool Section, SOAP Tester, Hot Log Logger2, TCPPortScan, 28 more Units
19374: BOLD Package, Indy Package5, maTRIX. MATHEMAX
19375: SPS Utils WDOS, Plc BitBus (PetriNet), 40 more units
19376: emax layers: system-package-component-unit-class-function-block
19377: HighPrecision Timers, Indy Package6, AutoDetect, UltraForms
19378: Reversi, GOL, bugfixing, 8 more units, Tutorial 24 Clean Code
19379: Tutorial 18_3 RGB LED, OpenGL Geometry, maxpix, statictext
19380: OpenGL Game Demo: ..Options/Add Ons/Reversi
19381: IBUtils Refactor, InterBase Package, DotNet Routines (JvExControls)
19382: add 31 units, mX4 Introduction Paper, more Socket&Streams, ShortString Routines
19383: 7% performance gain (hot spot profiling)
19384: PEP -Pascal Education Program, GSM Module, CGI, PHP Runner
19385: add 42 + 22 (64 units), memcached database, autobookmark, Alcinoe PAC, IPC Lib
19386: Orpheus PAC, AsyncFree Library advapi32 samples, FirebirdExp+MySQL units
19387: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
19388:
19389: add routines in 3.9.7.5
19390: 097: procedure RIRegister_BarCodeScanner_Routines(S: TPSEExec);
19391: 996: procedure RIRegister_DBCtrls_Routines(S: TPSEExec);
19392: 069: procedure RIRegister_IdStrings_Routines(S: TPSEExec);
19393: 516: procedure RIRegister_JclMultimedia_Routines(S: TPSEExec);
19394: 215: procedure RIRegister_PNGLoader_Routines(S: TPSEExec);
19395: 374: procedure RIRegister_SerDlg_Routines(S: TPSEExec);
19396: 777: procedure RIRegister_LinBitmap_Routines(S: TPSEExec);
19397:
19398: ////////////////////////////////////////////////////////////////// TestUnits //////////////////////////////////////////////////////////////////
19399: SelftestPEM;
19400: SelfTestCFundamentUtils;
19401: SelfTestCFileUtils;
19402: SelfTestCDateTime;
19403: SelfTestCTimer;
19404: SelfTestCRandom;
19405: Test with e.g.: Assert(PathHasDriveLetter('A:'), 'PathHasDriveLetter'
19406:           Assert(WinPathToUnixPath('\c\d\f') = '/c/d/f', 'WinPathToUnixPath'
19407:
19408: // Note: There's no need for installing a client certificate in the
19409: // webbrowser. The server asks the webbrowser to send a certificate but
19410: // if nothing is installed the software will work because the server
19411: // doesn't check to see if a client certificate was supplied. If you want you can install:
19412: // file: c_cacert.p12
19413: // password: c_cakey
19414:
19415: TGraphicControl = class(TControl)
19416: private
19417:   FCanvas: TCanvas;
19418:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19419: protected
19420:   procedure Paint; virtual;
19421:   property Canvas: TCanvas read FCanvas;
19422: public
19423:   constructor Create(AOwner: TComponent); override;
19424:   destructor Destroy; override;
19425: end;
19426:
19427: TCustomControl = class(TWinControl)
19428: private
19429:   FCanvas: TCanvas;
19430:   procedure WMPaint(var Message: TWMPaint); message WM_PAINT;
19431: protected
19432:   procedure Paint; virtual;
19433:   procedure PaintWindow(DC: HDC); override;
19434:   property Canvas: TCanvas read FCanvas;
19435: public
19436:   constructor Create(AOwner: TComponent); override;
19437:   destructor Destroy; override;
19438: end;
19439: RegisterPublishedProperties;
19440: ('ONCHANGE', 'TNotifyEvent', iptrw);
19441: ('ONCLICK', 'TNotifyEvent', iptrw);
19442: ('ONDBLCLICK', 'TNotifyEvent', iptrw);
19443: ('ONENTER', 'TNotifyEvent', iptrw);
19444: ('ONEVENT', 'TNotifyEvent', iptrw);
19445: ('ONKEYDOWN', 'TKeyEvent', iptrw);
19446: ('ONKEYPRESS', 'TKeyPressEvent', iptrw);
19447: ('ONMOUSEDOWN', 'TMouseEvent', iptrw);
19448: ('ONMOUSEMOVE', 'TMouseMoveEvent', iptrw);
19449: ('ONMOUSEUP', 'TMouseEvent', iptrw);
19450: //*****
19451: // To stop the while loop, click on Options>Show Include (boolean switch) !
19452: Control a loop in a script with a form event:
19453: IncludeON; //control the while loop
19454: while maxform1.ShowInclude1.checked do begin //menu event Options>Show Include
19455:
19456: //-----
19457: //*****mX4 ini-file Configuration*****
19458: //-----
19459: using config file maxboxdef.ini      menu/Help/Config File
19460:
19461: /*** Definitions for maxbox mX3 ***

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19462: [ FORM]
19463: LAST_FILE=E:\maxbox\maxbox3\examples\140_drive_typedemo.txt //history up to 10 files
19464: FONTSIZE=14
19465: EXTENSION=txt
19466: SCREENX=1386
19467: SCREENY=1077
19468: MEMHEIGHT=350
19469: PRINTFONT=Courier New //GUI Settings
19470: LINENUMBERS=Y //line numbers at gutter in editor at left side
19471: EXCEPTIONLOG=Y //store excepts and success in 2 log files see below! -menu Debug>Show Last Exceptions
19472: EXECUTESHELL=Y //prevents execution of ExecuteShell() or ExecuteCommand()
19473: BOOTSCRIPT=Y //enabling load a boot script
19474: MEMORYREPORT=Y //shows memory report on closing maxBox
19475: MACRO=Y //expand macros (see below) in code e.g. #path:E:\maxbox3\mXGit39988\maxbox3\docs\
19476: NAVIGATOR=N //shows function list at the right side of editor
19477: NAVWIDTH=350 //width of the right side interface list <CTRL L> >=200
19478: AUTOBOOKMARK=Y //sets on all functions a bookmark to jump
19479: [ WEB]
19480: IPORT=8080 //for internal webserver - menu /Options/Add Ons/WebServer
19481: IPHOST=192.168.1.53
19482: ROOTCERT=filepathY
19483: SCERT=filepathY
19484: RSAKEY=filepathY
19485: VERSIONCHECK=Y
19486:
19487: using Logfile: maxboxlog.log , Exceptionlogfile: maxboxerrorlog.txt
19488:
19489: Also possible to set report memory in script to override ini setting
19490: procedure Set_ReportMemoryLeaksOnShutdown(abo: boolean)
19491:
19492:
19493: After Change the ini file you can reload the file with ..../Help/Config Update
19494:
19495: //-----
19496: //*****mX4 maildef.ini ini-file Configuration*****
19497: //-----
19498: //*** Definitions for maMail ***
19499: //sendemail, HOST=mail.hover.com, PORT=465 (SSL)
19500: [ MAXMAIL]
19501: HOST=mailto:softwareeschule.ch
19502: USER=mailusername
19503: PASS=password
19504: PORT=110
19505: SSL=Y
19506: BODY=Y
19507: LAST=5
19508:
19509: ADO Connection String:
19510: Provider=MSDASQL;DSN=mx3base;Uid=sa;Pwd=admin
19511:
19512: \452_dbtreeview2access.txt
19513: program TestDbTreeViewMainForm2_ACCESS;
19514:   ConnectionString:='Provider=Microsoft.Jet.OLEDB.4.0;Data Source='
19515:           +Exepath+'\examples\detail.mdb;Persist Security Info=False';
19516:
19517: OpenSSL Lib: unit ssl_openssl_lib;
19518: {$IFDEF CIL}
19519: const
19520: {$IFDEF LINUX}
19521: DLLSSLName = 'libssl.so';
19522: DLLUtilName = 'libcrypto.so';
19523: {$ELSE}
19524: DLLSSLName = 'ssleay32.dll';
19525: DLLUtilName = 'libeay32.dll';
19526: {$ENDIF}
19527: {$ELSE}
19528: var
19529: {$IFNDEF MSWINDOWS}
19530: {$IFDEF DARWIN}
19531: DLLSSLName: string = 'libssl.dylib';
19532: DLLUtilName: string = 'libcrypto.dylib';
19533: {$ELSE}
19534: DLLSSLName: string = 'libssl.so';
19535: DLLUtilName: string = 'libcrypto.so';
19536: {$ENDIF}
19537: {$ELSE}
19538: DLLSSLName: string = 'ssleay32.dll';
19539: DLLSSLName2: string = 'libssl32.dll';
19540: DLLUtilName: string = 'libeay32.dll';
19541: {$ENDIF}
19542: {$ENDIF}
19543:
19544:
19545: //-----
19546: //*****mX4 Macro Tags *****
19547: //-----
19548:
19549: asm #name #hostmAPSN2APSN211le, #head,max: APSN21: 04.01.2014 19:05:50
E:\maxbox\maxbox3\docs\maxbox_extract_funclist399.txt end

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19550:
19551: //Tag Macros
19552:
19553:   asm #name, #date, #host, #path, #file, #head, #sign #tech #net end
19554:
19555: //Tag Macros
19556: 10188: SearchAndCopy(memo1.lines, '#name', getUserNameWin, 11);
19557: 10189: SearchAndCopy(memo1.lines, '#date', datetimetoStr(now), 11);
19558: 10190: SearchAndCopy(memo1.lines, '#host', getComputernameWin, 11);
19559: 10191: SearchAndCopy(memo1.lines, '#path', fpath, 11);
19560: 10192: SearchAndCopy(memo1.lines, '#file', fname, 11);
19561: 10199: SearchAndCopy(memo1.lines, '#fils', fname + '+SHA1(Act_Filename), 11);
19562: 10193: SearchAndCopy(memo1.lines, '#locs', intToStr(getCodeEnd), 11);
19563: 10194: SearchAndCopy(memo1.lines, '#perf', perftime, 11);
19564: 10195: SearchAndCopy(memo1.lines, '#sign', Format('%s: %s: %s',
19565:   [getUserNameWin, getComputernameWin, datetimetoStr(now),
19566:    10196: SearchAndCopy(memo1.lines, '#head', Format('%s: %s %s %s',
19567:   [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]), 11];
19568:   [getUserNameWin, getComputernameWin, datetimetoStr(now), Act_Filename]), 11);
19569: 10198: SearchAndCopy(memo1.lines, '#tech', Format('perf: %s threads: %d %s %s',
19570:   [perftime, numprocesssthreads, getIPAddress(getComputerNameWin), timetoStr(time), mbversion]), 11);
19571: 10298: SearchAndCopy(memo1.lines, '#net', Format('DNS: %s; local IPs: %s; local IP: %s',
19572:   [getDNS, GetLocalIPs, getIPAddress(getComputerNameWin)]), 10);
19573:
19574: //#tech!perf: 0:0:29.297 threads: 3 192.168.174.1 19:26:30
19575:
19576: //Replace Macros
19577:   SearchAndCopy(memo1.lines, '<TIME>', timetoStr(time), 6);
19578:   SearchAndCopy(memo1.lines, '<DATE>', datetoStr(date), 6);
19579:   SearchAndCopy(memo1.lines, '<PATH>', fpath, 6);
19580:   SearchAndCopy(memo1.lines, '<EXEPATH>', EXEPath, 9);
19581:   SearchAndCopy(memo1.lines, '<FILE>', fname, 6);
19582:   SearchAndCopy(memo1.lines, '<SOURCE>', ExePath+'Source', 8);
19583:
19584:   SearchAndCopy(memo1.lines, '#tech'perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19585:   [perftime,numprocesssthreads,getIPAddress(getComputerNameWin),timetoStr(time),mbversion]), 11);
19586: //#tech!84perf: threads: 2 192.168.1.53 19:05:50 3.9.9.84
19587:   SearchAndCopy(memo1.lines, 'maxbox_extract_funclist399.txt
19588:
19589: //-----
19590: //*****mX4 ToDo List Tags ..../Help/ToDo List*****
19591: //-----
19592:
19593:   while I < sl.Count do begin
19594: //     if MatchesMask(sl[I], '/? TODO ([a-z0-9_]*#[1-9#])*:*') then
19595:     if MatchesMask(sl[I], '/? TODO (?*#?#)*:*') then
19596:       BreakupToDo(Filename, sl, I, 'TODO', True, True) // full info TODO
19597:     else if MatchesMask(sl[I], '/? DONE (?*#?#)*:*') then
19598:       BreakupToDo(Filename, sl, I, 'DONE', True, True) // full info DONE
19599:     else if MatchesMask(sl[I], '/? TODO (#?#)*:*') then
19600:       BreakupToDo(Filename, sl, I, 'TODO', False, True) // only priority info TODO
19601:     else if MatchesMask(sl[I], '/? DONE (#?#)*:*') then
19602:       BreakupToDo(Filename, sl, I, 'DONE', False, True) // only priority info DONE
19603:     else if MatchesMask(sl[I], '/?/?TODO*:*)' then
19604:       BreakupToDo(Filename, sl, I, 'TODO', False, False) // custom TODO
19605:     else if MatchesMask(sl[I], '/?/?DONE*:*)' then
19606:       BreakupToDo(Filename, sl, I, 'DONE', False, False); // custom DONE
19607:     Inc(I);
19608:   end;
19609:
19610:
19611: //-----
19612: //*****mX4 Public Tools API *****
19613: //-----
19614: file : unit uPSI_fMain.pas;           {$OTAP} Open Tools API Catalog
19615: // Those functions concern the editor and preprocessor, all of the IDE
19616: Example: Call it with maxform1.Info1Click(self)
19617: Note: Call all Methods with maxForm1., e.g.:
19618:           maxForm1.ShellStyle1Click(self);
19619:
19620: procedure SIRegister_fMain(CL: TPPSPascalCompiler);
19621: begin
19622:   Const ('BYTECODE', 'String bytecode.txt'
19623:   Const ('PSTEXT', 'String PS Scriptfiles (*.txt)|*.TXT')
19624:   Const ('PSMODEL', 'String PS Modelfiles (*.uc)|*.UC'
19625:   Const ('PSPASCAL', 'String PS Pascalfiles (*.pas)|*.PAS
19626:   Const ('PSINC', 'String PS Includes (*.inc)|*.INC
19627:   Const ('DEFFILENAME', 'String firstdemo.txt
19628:   Const ('DEFINIFILE', 'String maxboxdef.ini
19629:   Const ('EXCEPTLOGFILE', 'String maxboxerrorlog.txt
19630:   Const ('ALLFUNCTIONSLIST', 'String upsi_allfunctionslist.txt
19631:   Const ('ALLFUNCTIONSLISTPDF', 'String maxbox_functions_all.pdf
19632:   Const ('ALLOBJECTSLIST', 'String docs\VCL.pdf
19633:   Const ('ALLRESOURCELIST', 'String docs\upsi_allresourcelist.txt
19634:   Const ('ALLUNITLIST', 'String docs\maxbox3_9.xml');
19635:   Const ('INCLUDEBOX', 'String pas_includebox.inc
19636:   Const ('BOOTSCRIPT', 'String maxbootscript.txt
19637:   Const ('MBVERSION', 'String 3.9.9.98
19638:   Const ('VERSION', 'String'3.9.9.98

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19639: Const('MBVER', 'String' '399
19640: Const('MBVERI', 'Integer'(399);
19641: Const('MBVERIALL', 'Integer'(39998);
19642: Const('EXENAME', 'String' 'maxBox3.exe
19643: Const('MXSITE', 'String' 'http://www.softwareschule.ch/maxbox.htm
19644: Const('MXVERSIONFILE', 'String' 'http://www.softwareschule.ch/maxvfile.txt
19645: Const('MXVERSIONFILE2', 'String' 'http://www.softwareschule.ch/maxvfile2.txt
19646: Const('MXINTERNETCHECK', 'String' 'www.ask.com
19647: Const('MXMAIL', 'String' 'max@kleiner.com
19648: Const('TAB', 'Char #\$09);
19649: Const('CODECOMPLETION', 'String' 'bds_delphi.dci
19650: SIRegister_TMaxForm1(CL);
19651: end;
19652:
19653: with FindClass('TForm'), 'TMaxForm1') do begin
19654:   memo2', 'TMemo', iptrw);
19655:   memo1', 'TSynMemo', iptrw);
19656:   CB1SCList', 'TComboBox', iptrw);
19657:   mxNavigator', 'TComboBox', iptrw);
19658:   IPHost', 'string', iptrw);
19659:   IPPort', 'integer', iptrw);
19660:   COMPort', 'integer', iptrw); //3.9.6.4
19661:   Splitter1', 'TSplitter', iptrw);
19662:   PSSScript', 'TPSScript', iptrw);
19663:   PS3DllPlugin', 'TPS3DllPlugin', iptrw);
19664:   MainMenuItem', 'TMainMenu', iptrw);
19665:   Program1', 'TMenuItem', iptrw);
19666:   Compile1', 'TMenuItem', iptrw);
19667:   Files1', 'TMenuItem', iptrw);
19668:   open1', 'TMenuItem', iptrw);
19669:   Save2', 'TMenuItem', iptrw);
19670:   Options1', 'TMenuItem', iptrw);
19671:   Savebefore1', 'TMenuItem', iptrw);
19672:   Largefont1', 'TMenuItem', iptrw);
19673:   sBytecode1', 'TMenuItem', iptrw);
19674:   Saveas3', 'TMenuItem', iptrw);
19675:   Clear1', 'TMenuItem', iptrw);
19676:   Slinenumbers1', 'TMenuItem', iptrw);
19677:   About1', 'TMenuItem', iptrw);
19678:   Search1', 'TMenuItem', iptrw);
19679:   SynPasSyn1', 'TSynPasSyn', iptrw);
19680:   memo1', 'TSynMemo', iptrw);
19681:   SynEditSearch1', 'TSynEditSearch', iptrw);
19682:   WordWrap1', 'TMenuItem', iptrw);
19683:   XPMManifest1', 'TXPMManifest', iptrw);
19684:   SearchNext1', 'TMenuItem', iptrw);
19685:   Replace1', 'TMenuItem', iptrw);
19686:   PSImport_Controls1', 'TPSImport_Controls', iptrw);
19687:   PSImport_Classes1', 'TPSImport_Classes', iptrw);
19688:   ShowInclude1', 'TMenuItem', iptrw);
19689:   SynEditPrint1', 'TSynEditPrint', iptrw);
19690:   Printout1', 'TMenuItem', iptrw);
19691:   mnPrintColors1', 'TMenuItem', iptrw);
19692:   dlgFilePrint', 'TPrintDialog', iptrw);
19693:   dlgPrintFont1', 'TFontDialog', iptrw);
19694:   mnuPrintFont1', 'TMenuItem', iptrw);
19695:   Include1', 'TMenuItem', iptrw);
19696:   CodeCompletionList1', 'TMenuItem', iptrw);
19697:   IncludeList1', 'TMenuItem', iptrw);
19698:   ImageList1', 'TImageList', iptrw);
19699:   ImageList2', 'TImageList', iptrw);
19700:   CoolBar1', 'TCoolBar', iptrw);
19701:   ToolBar1', 'TToolBar', iptrw);
19702:   btnLoad', 'TToolButton', iptrw);
19703:   ToolButton2', 'TToolButton', iptrw);
19704:   btnFind', 'TToolButton', iptrw);
19705:   btnCompile', 'TToolButton', iptrw);
19706:   btnTrans', 'TToolButton', iptrw);
19707:   btnUseCase', 'TToolButton', iptrw); //3.8
19708:   toolbtnTutorial', 'TToolButton', iptrw);
19709:   btn6res', 'TToolButton', iptrw);
19710:   ToolButton5', 'TToolButton', iptrw);
19711:   ToolButton1', 'TToolButton', iptrw);
19712:   ToolButton3', 'TToolButton', iptrw);
19713:   statusBar1', 'TStatusBar', iptrw);
19714:   SaveOutput1', 'TMenuItem', iptrw);
19715:   ExportClipboard1', 'TMenuItem', iptrw);
19716:   Close1', 'TMenuItem', iptrw);
19717:   Manual1', 'TMenuItem', iptrw);
19718:   About2', 'TMenuItem', iptrw);
19719:   loadLastfile1', 'TMenuItem', iptrw);
19720:   imgLogo', 'TImage', iptrw);
19721:   cedebbug', 'TPSScriptDebugger', iptrw);
19722:   debugPopupMenu1', 'TPopupMenu', iptrw);
19723:   BreakPointMenu', 'TMenuItem', iptrw);
19724:   Decompile1', 'TMenuItem', iptrw);
19725:   StepInto1', 'TMenuItem', iptrw);
19726:   StepOut1', 'TMenuItem', iptrw);
19727:   Reset1', 'TMenuItem', iptrw);
```

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19728: DebugRun1', 'TMenuItem', iptrw);
19729: PSImport_ComObj1', 'TPSImport_ComObj', iptrw);
19730: PSImport_StdCtrls1', 'TPSImport_StdCtrls', iptrw);
19731: PSImport_Forms1', 'TPSImport_Forms', iptrw);
19732: PSImport_DateUtils1', 'TPSImport_DateUtils', iptrw);
19733: tutorial4', 'TMenuItem', iptrw);
19734: ExporttoClipboard1', 'TMenuItem', iptrw);
19735: ImportfromClipboard1', 'TMenuItem', iptrw);
19736: N4', 'TMenuItem', iptrw);
19737: N5', 'TMenuItem', iptrw);
19738: N6', 'TMenuItem', iptrw);
19739: ImportfromClipboard2', 'TMenuItem', iptrw);
19740: tutorial1', 'TMenuItem', iptrw);
19741: N7', 'TMenuItem', iptrw);
19742: ShowSpecChars1', 'TMenuItem', iptrw);
19743: OpenDirectory1', 'TMenuItem', iptrw);
19744: procMess', 'TMenuItem', iptrw);
19745: btnUseCase', 'TToolButton', iptrw);
19746: ToolButton7', 'TToolButton', iptrw);
19747: EditFont1', 'TMenuItem', iptrw);
19748: UseCase1', 'TMenuItem', iptrw);
19749: tutorial21', 'TMenuItem', iptrw);
19750: OpenUseCase1', 'TMenuItem', iptrw);
19751: PSImport_DB1', 'TPSImport_DB', iptrw);
19752: tutorial31', 'TMenuItem', iptrw);
19753: SynHTMLSyn1', 'TSynHTMLSyn', iptrw);
19754: HTMLEntax1', 'TMenuItem', iptrw);
19755: ShowInterfaces1', 'TMenuItem', iptrw);
19756: Tutorials5', 'TMenuItem', iptrw);
19757: AllFunctionsList1', 'TMenuItem', iptrw);
19758: ShowLastException1', 'TMenuItem', iptrw);
19759: PlayMP31', 'TMenuItem', iptrw);
19760: SynTeXSyn1', 'TSynTeXSyn', iptrw);
19761: texSyntax1', 'TMenuItem', iptrw);
19762: N8', 'TMenuItem', iptrw);
19763: GetEMails1', 'TMenuItem', iptrw);
19764: SynCppSyn1', 'TSynCppSyn', iptrw);
19765: CSyntax1', 'TMenuItem', iptrw);
19766: Tutorial6', 'TMenuItem', iptrw);
19767: New1', 'TMenuItem', iptrw);
19768: AllObjectsList1', 'TMenuItem', iptrw);
19769: LoadBytecode1', 'TMenuItem', iptrw);
19770: CipherFile1', 'TMenuItem', iptrw);
19771: N9', 'TMenuItem', iptrw);
19772: N10', 'TMenuItem', iptrw);
19773: Tutorial11', 'TMenuItem', iptrw);
19774: Tutorial71', 'TMenuItem', iptrw);
19775: UpdateService1', 'TMenuItem', iptrw);
19776: PascalSchool1', 'TMenuItem', iptrw);
19777: Tutorial81', 'TMenuItem', iptrw);
19778: DelphiSite1', 'TMenuItem', iptrw);
19779: Output1', 'TMenuItem', iptrw);
19780: TerminalStyle1', 'TMenuItem', iptrw);
19781: ReadOnly1', 'TMenuItem', iptrw);
19782: ShellStyle1', 'TMenuItem', iptrw);
19783: BigScreen1', 'TMenuItem', iptrw);
19784: Tutorial91', 'TMenuItem', iptrw);
19785: SaveOutput2', 'TMenuItem', iptrw);
19786: N11', 'TMenuItem', iptrw);
19787: SaveScreenshot', 'TMenuItem', iptrw);
19788: Tutorial101', 'TMenuItem', iptrw);
19789: SQLSyntax1', 'TMenuItem', iptrw);
19790: SynSQLSyn1', 'TSynSQLSyn', iptrw);
19791: Console1', 'TMenuItem', iptrw);
19792: SynXMLSyn1', 'TSynXMLSyn', iptrw);
19793: XMLSyntax1', 'TMenuItem', iptrw);
19794: ComponentCount1', 'TMenuItem', iptrw);
19795: NewInstance1', 'TMenuItem', iptrw);
19796: toolbtnTutorial', 'TToolButton', iptrw);
19797: Memory1', 'TMenuItem', iptrw);
19798: SynJavaSyn1', 'TSynJavaSyn', iptrw);
19799: JavaSyntax1', 'TMenuItem', iptrw);
19800: SyntaxCheck1', 'TMenuItem', iptrw);
19801: Tutorial10Statistics1', 'TMenuItem', iptrw);
19802: ScriptExplorer1', 'TMenuItem', iptrw);
19803: FormOutput1', 'TMenuItem', iptrw);
19804: ArduinoDump1', 'TMenuItem', iptrw);
19805: AndroidDump1', 'TMenuItem', iptrw);
19806: GotoEnd1', 'TMenuItem', iptrw);
19807: AllResourceList1', 'TMenuItem', iptrw);
19808: ToolButton4', 'TToolButton', iptrw);
19809: btn6res', 'TToolButton', iptrw);
19810: Tutorial11Forms1', 'TMenuItem', iptrw);
19811: Tutorial12SQL1', 'TMenuItem', iptrw);
19812: ResourceExplore1', 'TMenuItem', iptrw);
19813: Info1', 'TMenuItem', iptrw);
19814: N12', 'TMenuItem', iptrw);
19815: CryptoBox1', 'TMenuItem', iptrw);
19816: Tutorial13Ciphering1', 'TMenuItem', iptrw);
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19817: CipherFile2', 'TMenuItem', iptrw);
19818: Nl3', 'TMenuItem', iptrw);
19819: ModulesCount1', 'TMenuItem', iptrw);
19820: AddOns2', 'TMenuItem', iptrw);
19821: N4GewinntGame1', 'TMenuItem', iptrw);
19822: DocuforAddOns1', 'TMenuItem', iptrw);
19823: Tutorial14Async1', 'TMenuItem', iptrw);
19824: Lessons15Review1', 'TMenuItem', iptrw);
19825: SynPHPSyn1', 'TSynPHPSyn', iptrw);
19826: PHPSyntax1', 'TMenuItem', iptrw);
19827: Breakpoint1', 'TMenuItem', iptrw);
19828: SerialRS2321', 'TMenuItem', iptrw);
19829: N14', 'TMenuItem', iptrw);
19830: SynCSSyn1', 'TSynCSSyn', iptrw);
19831: CSyntax2', 'TMenuItem', iptrw);
19832: Calculator1', 'TMenuItem', iptrw);
19833: tbtnSerial', 'TToolButton', iptrw);
19834: ToolButton8', 'TToolButton', iptrw);
19835: Tutorial151', 'TMenuItem', iptrw);
19836: N15', 'TMenuItem', iptrw);
19837: N16', 'TMenuItem', iptrw);
19838: ControlBar1', 'TControlBar', iptrw);
19839: ToolBar2', 'TToolBar', iptrw);
19840: BtnOpen', 'TToolButton', iptrw);
19841: BtnSave', 'TToolButton', iptrw);
19842: BtnPrint', 'TToolButton', iptrw);
19843: BtnColors', 'TToolButton', iptrw);
19844: BtnClassReport', 'TToolButton', iptrw);
19845: BtnRotateRight', 'TToolButton', iptrw);
19846: BtnFullSize', 'TToolButton', iptrw);
19847: BtnFitToWindowSize', 'TToolButton', iptrw);
19848: BtnZoomMinus', 'TToolButton', iptrw);
19849: BtnZoomPlus', 'TToolbutton', iptrw);
19850: Panell', 'TPanel', iptrw);
19851: LabelBrettgroesse', 'TLabel', iptrw);
19852: CB1SCList', 'TComboBox', iptrw);
19853: ImageListNormal', 'TImageList', iptrw);
19854: spbtnexploye', 'TSpeedButton', iptrw);
19855: spbtnexample', 'TSpeedButton', iptrw);
19856: spbsaveas', 'TSpeedButton', iptrw);
19857: imglogobox', 'TImage', iptrw);
19858: EnlargeFont1', 'TMenuItem', iptrw);
19859: EnlargeFont2', 'TMenuItem', iptrw);
19860: ShrinkFont1', 'TMenuItem', iptrw);
19861: ThreadDemo1', 'TMenuItem', iptrw);
19862: HEXEditor1', 'TMenuItem', iptrw);
19863: HEXView1', 'TMenuItem', iptrw);
19864: HEXInspect1', 'TMenuItem', iptrw);
19865: SynExporterHTML1', 'TSynExporterHTML', iptrw);
19866: ExporttoHTML1', 'TMenuItem', iptrw);
19867: ClassCount1', 'TMenuItem', iptrw);
19868: HTMLOutput1', 'TMenuItem', iptrw);
19869: HEXEditor2', 'TMenuItem', iptrw);
19870: Minesweeper1', 'TMenuItem', iptrw);
19871: N17', 'TMenuItem', iptrw);
19872: PicturePuzzle1', 'TMenuItem', iptrw);
19873: sbvc1help', 'TSpeedButton', iptrw);
19874: DependencyWalker1', 'TMenuItem', iptrw);
19875: WebScanner1', 'TMenuItem', iptrw);
19876: View1', 'TMenuItem', iptrw);
19877: mnToolbar1', 'TMenuItem', iptrw);
19878: mnStatusbar2', 'TMenuItem', iptrw);
19879: mnConsole2', 'TMenuItem', iptrw);
19880: mnCoolbar2', 'TMenuItem', iptrw);
19881: mnSplitter2', 'TMenuItem', iptrw);
19882: WebServer1', 'TMenuItem', iptrw);
19883: Tutorial17Server1', 'TMenuItem', iptrw);
19884: Tutorial18Arduinol', 'TMenuItem', iptrw);
19885: SynPerlSyn1', 'TSynPerlSyn', iptrw);
19886: PerlSyntax1', 'TMenuItem', iptrw);
19887: SynPythonSyn1', 'TSynPythonSyn', iptrw);
19888: PythonSyntax1', 'TMenuItem', iptrw);
19889: DMathLibrary1', 'TMenuItem', iptrw);
19890: IntfNavigator1', 'TMenuItem', iptrw);
19891: EnlargeFontConsole1', 'TMenuItem', iptrw);
19892: ShrinkFontConsole1', 'TMenuItem', iptrw);
19893: SetInterfaceList1', 'TMenuItem', iptrw);
19894: popintfList', 'TPopupMenu', iptrw);
19895: intfAdd1', 'TMenuItem', iptrw);
19896: intfDelete1', 'TMenuItem', iptrw);
19897: intfRefactor1', 'TMenuItem', iptrw);
19898: Defactor1', 'TMenuItem', iptrw);
19899: Tutorial19COMArduinol', 'TMenuItem', iptrw);
19900: Tutorial20Regex', 'TMenuItem', iptrw);
19901: N18', 'TMenuItem', iptrw);
19902: ManualE1', 'TMenuItem', iptrw);
19903: FullTextFinder1', 'TMenuItem', iptrw);
19904: Move1', 'TMenuItem', iptrw);
19905: FractalDemol1', 'TMenuItem', iptrw);
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19906: Tutorial21Android1', 'TMenuItem', iptrw);
19907: Tutorial0Function1', 'TMenuItem', iptrw);
19908: SimuLogBox1', 'TMenuItem', iptrw);
19909: OpenExamples1', 'TMenuItem', iptrw);
19910: SynJScriptSyn1', 'TSynJScriptSyn', iptrw);
19911: JavaScriptSyntax1', 'TMenuItem', iptrw);
19912: Halt1', 'TMenuItem', iptrw);
19913: CodeSearch1', 'TMenuItem', iptrw);
19914: SynRubySyn1', 'TSynRubySyn', iptrw);
19915: RubySyntax1', 'TMenuItem', iptrw);
19916: Undo1', 'TMenuItem', iptrw);
19917: SynUNIXShellScriptSyn1', 'TSynUNIXShellScriptSyn', iptrw);
19918: LinuxShellScript1', 'TMenuItem', iptrw);
19919: Rename1', 'TMenuItem', iptrw);
19920: spdcodesearch', 'TSpeedButton', iptrw);
19921: Preview1', 'TMenuItem', iptrw);
19922: Tutorial22Services1', 'TMenuItem', iptrw);
19923: Tutorial23RealTime1', 'TMenuItem', iptrw);
19924: Configuration1', 'TMenuItem', iptrw);
19925: MP3Player1', 'TMenuItem', iptrw);
19926: DLLSpy1', 'TMenuItem', iptrw);
19927: SynURIOpener1', 'TSynURIOpener', iptrw);
19928: SynURISyn1', 'TSynURISyn', iptrw);
19929: URILinksClicks1', 'TMenuItem', iptrw);
19930: EditReplace1', 'TMenuItem', iptrw);
19931: GotoLine1', 'TMenuItem', iptrw);
19932: ActiveLineColor1', 'TMenuItem', iptrw);
19933: ConfigFile1', 'TMenuItem', iptrw);
19934: SortIntlList', 'TMenuItem', iptrw);
19935: Redo1', 'TMenuItem', iptrw);
19936: Tutorial24CleanCode1', 'TMenuItem', iptrw);
19937: Tutorial25Configuration1', 'TMenuItem', iptrw);
19938: IndentSelection1', 'TMenuItem', iptrw);
19939: UnindentSection1', 'TMenuItem', iptrw);
19940: SkyStyle1', 'TMenuItem', iptrw);
19941: N19', 'TMenuItem', iptrw);
19942: CountWords1', 'TMenuItem', iptrw);
19943: imbookmarkimages', 'TImageList', iptrw);
19944: Bookmark11', 'TMenuItem', iptrw);
19945: N20', 'TMenuItem', iptrw);
19946: Bookmark21', 'TMenuItem', iptrw);
19947: Bookmark31', 'TMenuItem', iptrw);
19948: Bookmark41', 'TMenuItem', iptrw);
19949: SynMultiSyn1', 'TSynMultiSyn', iptrw);
19950:
19951: Procedure IFPS3ClassesPlugin1CompImport( Sender : TObject; x : TPSPascalCompiler)
19952: Procedure IFPS3ClassesPlugin1ExecImport(Sender: TObject; Exec: TPSEExec; x:TPSRuntimeClassImporter);
19953: Procedure PSSScriptCompile( Sender : TPSScript)
19954: Procedure Compile1Click( Sender : TObject)
19955: Procedure PSSScriptExecute( Sender : TPSScript)
19956: Procedure open1Click( Sender : TObject)
19957: Procedure Save2Click( Sender : TObject)
19958: Procedure Savebefore1Click( Sender : TObject)
19959: Procedure Largefont1Click( Sender : TObject)
19960: Procedure FormActivate( Sender : TObject)
19961: Procedure SBytecode1Click( Sender : TObject)
19962: Procedure FormKeyPress( Sender : TObject; var Key : Char)
19963: Procedure Saveas3Click( Sender : TObject)
19964: Procedure Clear1Click( Sender : TObject)
19965: Procedure Slinenumbers1Click( Sender : TObject)
19966: Procedure About1Click( Sender : TObject)
19967: Procedure Search1Click( Sender : TObject)
19968: Procedure FormCreate( Sender : TObject)
19969: Procedure Memo1ReplaceText(Sender:TObject;const ASearch,AReplace:String;Line,Column:Integer;
19970: var Action : TSynReplaceAction)
19971: Procedure Memo1StatusChange( Sender : TObject; Changes : TSynStatusChanges)
19972: Procedure WordWrap1Click( Sender : TObject)
19973: Procedure SearchNext1Click( Sender : TObject)
19974: Procedure Replace1Click( Sender : TObject)
19975: Function PSSScriptNeedFile(Sender:TObject;const OriginFileName:String;var FName,Output:String):Bool;
19976: Procedure ShowInclude1Click( Sender : TObject)
19977: Procedure Printout1Click( Sender : TObject)
19978: Procedure mnuprintFont1Click( Sender : TObject)
19979: Procedure IncludelClick( Sender : TObject)
19980: Procedure FormDestroy( Sender : TObject)
19981: Procedure FormClose( Sender : TObject; var Action : TCloseAction)
19982: Procedure UpdateViewClick( Sender : TObject)
19983: Procedure CodeCompletionList1Click( Sender : TObject)
19984: Procedure SaveOutput1Click( Sender : TObject)
19985: Procedure ExportClipboard1Click( Sender : TObject)
19986: Procedure Close1Click( Sender : TObject)
19987: Procedure Manual1Click( Sender : TObject)
19988: Procedure LoadLastFile1Click( Sender : TObject)
19989: Procedure Memo1Change( Sender : TObject)
19990: Procedure Decompile1Click( Sender : TObject)
19991: Procedure StepInto1Click( Sender : TObject)
19992: Procedure StepOut1Click( Sender : TObject)
19993: Procedure Reset1Click( Sender : TObject)
19994: Procedure cedebugAfterExecute( Sender : TPSScript)

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19995: Procedure cedebreakBreakpoint( Sender: TObject; const FileName:String; Position,Row, Col: Cardinal)
19996: Procedure cedebreakCompile( Sender : TPSScript)
19997: Procedure cedebreakExecute( Sender : TPSScript)
19998: Procedure cedebreakIdle( Sender : TObject)
19999: Procedure cedebreakLineInfo( Sender:TObject;const FileName:String; Position, Row, Col : Cardinal)
20000: Procedure Memo1SpecialLineColors(Sender: TObject; Line:Int; var Special:Boolean;var FG,BG:TColor);
20001: Procedure BreakPointMenuClick( Sender : TObject)
20002: Procedure DebugRun1Click( Sender : TObject)
20003: Procedure tutorial4Click( Sender : TObject)
20004: Procedure ImportfromClipboard1Click( Sender : TObject)
20005: Procedure ImportfromClipboard2Click( Sender : TObject)
20006: Procedure tutorial1Click( Sender : TObject)
20007: Procedure ShowSpecChars1Click( Sender : TObject)
20008: Procedure StatusBar1LblClick( Sender : TObject)
20009: Procedure PSScriptLine( Sender : TObject)
20010: Procedure OpenDirectory1Click( Sender : TObject)
20011: Procedure procMessClick( Sender : TObject)
20012: Procedure tbtnUseCaseClick( Sender : TObject)
20013: Procedure EditFont1Click( Sender : TObject)
20014: Procedure tutorial21Click( Sender : TObject)
20015: Procedure tutorial31Click( Sender : TObject)
20016: Procedure HTMLEyntax1Click( Sender : TObject)
20017: Procedure ShowInterfaces1Click( Sender : TObject)
20018: Procedure Tutorial5Click( Sender : TObject)
20019: Procedure ShowLastException1Click( Sender : TObject)
20020: Procedure PlayMP31Click( Sender : TObject)
20021: Procedure AllFunctionsList1Click( Sender : TObject)
20022: Procedure texSyntax1Click( Sender : TObject)
20023: Procedure GetEMails1Click( Sender : TObject)
20024: procedure DelphiSite1Click(Sender: TObject);
20025: procedure TerminalStyle1Click(Sender: TObject);
20026: procedure ReadOnly1Click(Sender: TObject);
20027: procedure Shellstyle1Click(Sender: TObject);
20028: procedure Console1Click(Sender: TObject); //3.2
20029: procedure BigScreen1Click(Sender: TObject);
20030: procedure Tutorial91Click(Sender: TObject);
20031: procedure SaveScreenshotClick(Sender: TObject);
20032: procedure Tutorial101Click(Sender: TObject);
20033: procedure SQLSyntax1Click(Sender: TObject);
20034: procedure XMLSyntax1Click(Sender: TObject);
20035: procedure ComponentCount1Click(Sender: TObject);
20036: procedure NewInstance1Click(Sender: TObject);
20037: procedure CSyntax1Click(Sender: TObject);
20038: procedure Tutorial6Click(Sender: TObject);
20039: procedure New1Click(Sender: TObject);
20040: procedure AllObjectsList1Click(Sender: TObject);
20041: procedure LoadBytecode1Click(Sender: TObject);
20042: procedure CipherFile1Click(Sender: TObject); //V3.5
20043: procedure NewInstance1Click(Sender: TObject);
20044: procedure toolbtnTutorialClick(Sender: TObject);
20045: procedure Memory1Click(Sender: TObject);
20046: procedure JavaSyntax1Click(Sender: TObject);
20047: procedure SyntaxCheck1Click(Sender: TObject);
20048: procedure ScriptExplorer1Click(Sender: TObject);
20049: procedure FormOutput1Click(Sender: TObject); //V3.6
20050: procedure GotoEnd1Click(Sender: TObject);
20051: procedure AllResourceList1Click(Sender: TObject);
20052: procedure tbtn6resClick(Sender: TObject); //V3.7
20053: procedure Info1Click(Sender: TObject);
20054: procedure Tutorial10Statistics1Click(Sender: TObject);
20055: procedure Tutorial11Forms1Click(Sender: TObject);
20056: procedure Tutorial12SQL1Click(Sender: TObject); //V3.8
20057: procedure ResourceExplore1Click(Sender: TObject);
20058: procedure Info1Click(Sender: TObject);
20059: procedure CryptoBox1Click(Sender: TObject);
20060: procedure ModulesCount1Click(Sender: TObject);
20061: procedure N4GewinntGame1Click(Sender: TObject);
20062: procedure PHPSyntax1Click(Sender: TObject);
20063: procedure SerialRS2321Click(Sender: TObject);
20064: procedure CSyntax2Click(Sender: TObject);
20065: procedure Calculator1Click(Sender: TObject);
20066: procedure Tutorial13Ciphering1Click(Sender: TObject);
20067: procedure Tutorial14Async1Click(Sender: TObject);
20068: procedure PHPSyntax1Click(Sender: TObject);
20069: procedure BtnZoomPlusClick(Sender: TObject);
20070: procedure BtnZoomMinusClick(Sender: TObject);
20071: procedure btnClassReportClick(Sender: TObject);
20072: procedure ThreadDemo1Click(Sender: TObject);
20073: procedure HEXView1Click(Sender: TObject);
20074: procedure ExporttoHTML1Click(Sender: TObject);
20075: procedure Minesweeper1Click(Sender: TObject);
20076: procedure PicturePuzzle1Click(Sender: TObject); //V3.9
20077: procedure sbvc1helpClick(Sender: TObject);
20078: procedure DependencyWalker1Click(Sender: TObject);
20079: procedure CB1SCLListDrawItem(Control:TWinControl;Index:Int;aRect:TRect;State:TOwnerDrawState);
20080: procedure WebScanner1Click(Sender: TObject);
20081: procedure mnToolbar1Click(Sender: TObject);
20082: procedure mnStatusbar2Click(Sender: TObject);
20083: procedure mnConsole2Click(Sender: TObject);

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20084: procedure mnCoolbar2Click(Sender: TObject);
20085: procedure mnSplitter2Click(Sender: TObject);
20086: procedure WebServer1Click(Sender: TObject);
20087: procedure PerlSyntax1Click(Sender: TObject);
20088: procedure PythonSyntax1Click(Sender: TObject);
20089: procedure DMathLibrary1Click(Sender: TObject);
20090: procedure IntfNavigator1Click(Sender: TObject);
20091: procedure FullTextFinder1Click(Sender: TObject);
20092: function AppName: string;
20093: function ScriptName: string;
20094: function LastName: string;
20095: procedure FractalDemo1Click(Sender: TObject);
20096: procedure SimuLogBox1Click(Sender: TObject);
20097: procedure OpenExamples1Click(Sender: TObject);
20098: procedure Halt1Click(Sender: TObject);
20099: procedure Stop;
20100: procedure CodeSearch1Click(Sender: TObject);
20101: procedure RubySyntax1Click(Sender: TObject);
20102: procedure Undo1Click(Sender: TObject);
20103: procedure LinuxShellScript1Click(Sender: TObject);
20104: procedure WebScannerDirect(urls: string);
20105: procedure WebScanner(urls: string);
20106: procedure LoadInterfaceList2;
20107: procedure DLLSpy1Click(Sender: TObject);
20108: procedure Memo1DblClick(Sender: TObject);
20109: procedure URILinksClicks1Click(Sender: TObject);
20110: procedure GotoLine1Click(Sender: TObject);
20111: procedure ConfigFile1Click(Sender: TObject);
20112: Procedure Sort1IntlistClick( Sender : TObject)
20113: Procedure Redo1Click( Sender : TObject)
20114: Procedure Tutorial24CleanCode1Click( Sender : TObject)
20115: Procedure IndentSelection1Click( Sender : TObject)
20116: Procedure UnindentSection1Click( Sender : TObject)
20117: Procedure SkyStyle1Click( Sender : TObject)
20118: Procedure CountWords1Click( Sender : TObject)
20119: Procedure Memo1PlaceBookmark( Sender : TObject; var Mark : TSynEditMark)
20120: Procedure Memo1GutterClick(Sender:TObject;Button:TMouseButton;X,Y,Line:Integer;Mark:TSynEditMark);
20121: Procedure Bookmark11Click( Sender : TObject)
20122: Procedure Bookmark21Click( Sender : TObject)
20123: Procedure Bookmark31Click( Sender : TObject)
20124: Procedure Bookmark41Click( Sender : TObject)
20125: Procedure SynMultiSyn1CustomRange(Sender:TSynMultiSyn;Operat:TRangeOperation;var Range:Pointer);
20126: 'STATMemoryReport', 'boolean', iptrw;
20127: 'IPPort', 'integer', iptrw;
20128: 'COMPort', 'integer', iptrw;
20129: 'lbintflist', 'TListBox', iptrw);
20130: Function GetStatChange : boolean
20131: Procedure SetStatChange( vstat : boolean)
20132: Function GetActFileName : string
20133: Procedure SetActFileName( vname : string)
20134: Function GetLastFileName : string
20135: Procedure SetLastFileName( vname : string)
20136: Procedure WebScannerDirect( urls : string)
20137: Procedure LoadInterfaceList2
20138: Function GetStatExecuteShell : boolean
20139: Procedure DoEditorExecuteCommand( EditorCommand : word)
20140: function GetActiveLineColor: TColor
20141: procedure SetActiveLineColor(acolor: TColor)
20142: procedure ScriptListbox1Click(Sender: TObject);
20143: procedure Memo2KeyPress(Sender: TObject; var Key: Char);
20144: procedure EnlargeGutter1Click(Sender: TObject);
20145: procedure Tetris1Click(Sender: TObject);
20146: procedure ToDoList1Click(Sender: TObject);
20147: procedure ProcessList1Click(Sender: TObject);
20148: procedure MetricReport1Click(Sender: TObject);
20149: procedure ProcessList1Click(Sender: TObject);
20150: procedure TCPSockets1Click(Sender: TObject);
20151: procedure ConfigUpdate1Click(Sender: TObject);
20152: procedure ADOWorkbench1Click(Sender: TObject);
20153: procedure SocketServer1Click(Sender: TObject);
20154: procedure FormDemolClick(Sender: TObject);
20155: procedure Richedit1Click(Sender: TObject);
20156: procedure SimpleBrowser1Click(Sender: TObject);
20157: procedure DOSShell11Click(Sender: TObject);
20158: procedure SynExport1Click(Sender: TObject);
20159: procedure ExporttoRTF1Click(Sender: TObject);
20160: procedure FormCloseQuery(Sender: TObject; var CanClose: Boolean);
20161: procedure SOAPTester1Click(Sender: TObject);
20162: procedure Sniffer1Click(Sender: TObject);
20163: procedure AutoDetectSyntax1Click(Sender: TObject);
20164: procedure FPlot1Click(Sender: TObject);
20165: procedure PassStyle1Click(Sender: TObject);
20166: procedure Tutorial183RGBLED1Click(Sender: TObject);
20167: procedure Reversi1Click(Sender: TObject);
20168: procedure Manualmaxbox1Click(Sender: TObject);
20169: procedure BlaisePascalMagazine1Click(Sender: TObject);
20170: procedure AddToDo1Click(Sender: TObject);
20171: procedure CreateGUID1Click(Sender: TObject);
20172: procedure Tutorial27XML1Click(Sender: TObject);
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20173: procedure CreateDLLStub1Click(Sender: TObject);
20174: procedure Tutorial28DLL1Click(Sender: TObject);');
20175: procedure ResetKeyPressed;');
20176: procedure FileChanges1Click(Sender: TObject);');
20177: procedure OpenGLTry1Click(Sender: TObject);');
20178: procedure AllUnitList1Click(Sender: TObject);');
20179: procedure Tutorial29UMLClick(Sender: TObject);
20180: procedure CreateHeader1Click(Sender: TObject);
20181:
20182: //-----
20183: //*****mX4 Editor SynEdit Tools API *****
20184: //-----
20185: procedure SIRegister_TCustomSynEdit(CL: TPSPPascalCompiler);
20186: begin
20187:   //with RegClassS(CL,'TCustomControl', 'TCustomSynEdit') do
20188:   with FindClass('TCustomControl','TCustomSynEdit') do begin
20189:     Constructor Create(AOwner : TComponent)
20190:     SelStart', 'Integer', iptrw);
20191:     SelEnd', 'Integer', iptrw); AlwaysShowCaret', 'Boolean', iptrw);
20192:     Procedure UpdateCaret
20193:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
20194:     Procedure AddKey(Command: TSynEditorCommand; Key1: word; SS1: TShiftState; Key2: word; SS2: TShiftState);
20195:     Procedure BeginUndoBlock
20196:     Procedure BeginUpdate
20197:     Function CaretInView : Boolean
20198:     Function CharIndexToRowCol( Index : integer ) : TBufferCoord
20199:     Procedure Clear
20200:     Procedure ClearAll
20201:     Procedure ClearBookMark( BookMark : Integer )
20202:     Procedure ClearSelection
20203:     Procedure CommandProcessor( Command : TSynEditorCommand; AChar : char; Data : pointer )
20204:     Procedure ClearUndo
20205:     Procedure CopyToClipboard
20206:     Procedure CutToClipboard
20207:     Procedure DoCopyToClipboard( const SText : string )
20208:     Procedure EndUndoBlock
20209:     Procedure EndUpdate
20210:     Procedure EnsureCursorPosVisible
20211:     Procedure EnsureCursorPosVisibleEx( ForceToMiddle : Boolean )
20212:     Procedure FindMatchingBracket
20213:     Function GetMatchingBracket : TBufferCoord
20214:     Function GetMatchingBracketEx( const APoint : TBufferCoord ) : TBufferCoord
20215:     Procedure ExecuteCommand( Command : TSynEditorCommand; AChar : char; Data : pointer )
20216:     Function GetBookMark( BookMark : integer; var X, Y : integer ) : boolean
20217:     Function GetHighlighterAttriAtRowCol( const XY: TBufferCoord; var Token : string; var Attr : TSynHighlighterAttributes ) : boolean
20218:     Function GetHighlighterAttriAtRowColEx( const XY : TBufferCoord; var Token : string;
20219:       var TokenType, Start : Integer; var Attr:TSynHighlighterAttributes):boolean
20220:     Function GetPositionOfMouse( out aPos : TBufferCoord ) : Boolean
20221:     Function GetWordAtRowCol( const XY : TBufferCoord ) : string
20222:     Procedure GotoBookMark( BookMark : Integer )
20223:     Procedure GotolineAndCenter( ALine : Integer )
20224:     Function IdentChars : TSynIdentChars
20225:     Procedure InvalidateGutter
20226:     Procedure InvalidateGutterLine( aLine : integer )
20227:     Procedure InvalidateGutterLines( FirstLine, LastLine : integer )
20228:     Procedure InvalidateLine( Line : integer )
20229:     Procedure InvalidateLines( FirstLine, LastLine : integer )
20230:     Procedure InvalidateSelection
20231:     Function IsBookmark( BookMark : integer ) : boolean
20232:     Function IsPointInSelection( const Value : TBufferCoord ) : boolean
20233:     Procedure LockUndo
20234:     Function BufferToDisplayPos( const p : TBufferCoord ) : TDisplayCoord
20235:     Function DisplayToBufferPos( const p : TDisplayCoord ) : TBufferCoord
20236:     Function LineToRow( aLine : integer ) : integer
20237:     Function RowToLine( aRow : integer ) : integer
20238:     Function NextWordPos : TBufferCoord
20239:     Function NextWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20240:     Procedure PasteFromClipboard
20241:     Function WordStart : TBufferCoord
20242:     Function WordStartEx( const XY : TBufferCoord ) : TBufferCoord
20243:     Function WordEnd : TBufferCoord
20244:     Function WordEndEx( const XY : TBufferCoord ) : TBufferCoord
20245:     Function PrevWordPos : TBufferCoord
20246:     Function PrevWordPosEx( const XY : TBufferCoord ) : TBufferCoord
20247:     Function PixelsToRowColumn( aX, aY : integer ) : TDisplayCoord
20248:     Function PixelsToNearestRowColumn( aX, aY : integer ) : TDisplayCoord
20249:     Procedure Redo
20250:     Procedure RegisterCommandHandler( const AHandlerProc:THookedCommandEvent; AHandlerData:pointer );
20251:     Function RowColumnToPixels( const RowCol : TDisplayCoord ) : TPoint
20252:     Function RowColToCharIndex( RowCol : TBufferCoord ) : integer
20253:     Function SearchReplace( const ASearch, AReplace:string; AOptions:TSynSearchOptions) : integer
20254:     Procedure SelectAll
20255:     Procedure SetBookMark( BookMark : Integer; X : Integer; Y : Integer )
20256:     Procedure SetCaretAndSelection( const ptCaret, ptBefore, ptAfter : TBufferCoord )
20257:     Procedure SetDefaultKeystrokes
20258:     Procedure SetSelWord
20259:     Procedure SetWordBlock( Value : TBufferCoord )
20260:     Procedure Undo
20261:

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20262: Procedure UnlockUndo
20263: Procedure UnregisterCommandHandler( AHandlerProc : THookedCommandEvent )
20264: Procedure AddKeyUpHandler( aHandler : TKeyEvent )
20265: Procedure RemoveKeyUpHandler( aHandler : TKeyEvent )
20266: Procedure AddKeyDownHandler( aHandler : TKeyEvent )
20267: Procedure RemoveKeyDownHandler( aHandler : TKeyEvent )
20268: Procedure AddKeyPressHandler( aHandler : TKeyPressEvent )
20269: Procedure RemoveKeyPressHandler( aHandler : TKeyPressEvent )
20270: Procedure AddFocusControl( aControl : TWinControl )
20271: Procedure RemoveFocusControl( aControl : TWinControl )
20272: Procedure AddMouseDownHandler( aHandler : TMouseEvent )
20273: Procedure RemoveMouseDownHandler( aHandler : TMouseEvent )
20274: Procedure AddMouseUpHandler( aHandler : TMouseEvent )
20275: Procedure RemoveMouseUpHandler( aHandler : TMouseEvent )
20276: Procedure AddMouseCursorHandler( aHandler : TMouseEvent )
20277: Procedure RemoveMouseCursorHandler( aHandler : TMouseEvent )
20278: Procedure SetLinesPointer( ASynEdit : TCustomSynEdit )
20279: Procedure RemoveLinesPointer
20280: Procedure HookTextBuffer( aBuffer : TSynEditStringList; aUndo, aRedo : TSynEditUndoList )
20281: Procedure UnHookTextBuffer
20282: BlockBegin', 'TBufferCoord', iptrw);
20283: BlockEnd', 'TBufferCoord', iptrw);
20284: CanPaste', 'Boolean', iptr);
20285: CanRedo', 'boolean', iptr);
20286: CanUndo', 'boolean', iptr);
20287: CaretX', 'Integer', iptrw);
20288: CaretY', 'Integer', iptrw);
20289: CaretXY', 'TBufferCoord', iptrw);
20290: ActiveLineColor', 'TColor', iptrw);
20291: DisplayX', 'Integer', iptr);
20292: DisplayY', 'Integer', iptr);
20293: DisplayXY', 'TDisplayCoord', iptr);
20294: DisplayLineCount', 'integer', iptr);
20295: CharsInWindow', 'Integer', iptr);
20296: CharWidth', 'integer', iptr);
20297: Font', 'TFont', iptrw);
20298: GutterWidth', 'Integer', iptr);
20299: Highlighter', 'TSynCustomHighlighter', iptrw);
20300: LeftChar', 'Integer', iptrw);
20301: LineHeight', 'integer', iptr);
20302: LinesInWindow', 'Integer', iptr);
20303: LineText', 'string', iptrw);
20304: Lines', 'TStrings', iptrw);
20305: Marks', 'TSynEditMarkList', iptr);
20306: MaxScrollWidth', 'integer', iptrw);
20307: Modified', 'Boolean', iptrw);
20308: PaintLock', 'Integer', iptr);
20309: ReadOnly', 'Boolean', iptrw);
20310: SearchEngine', 'TSynEditSearchCustom', iptrw);
20311: SelAvail', 'Boolean', iptr); SelLength', 'integer', iptrw);
20312: SelTabBlock', 'Boolean', iptr);
20313: SelTabLine', 'Boolean', iptr);
20314: SelText', 'string', iptrw);
20315: StateFlags', 'TSynStateFlags', iptr);
20316: Text', 'string', iptrw);
20317: TopLine', 'Integer', iptrw);
20318: WordAtCursor', 'string', iptr);
20319: WordAtMouse', 'string', iptr);
20320: UndoList', 'TSynEditUndoList', iptr);
20321: RedoList', 'TSynEditUndoList', iptr);
20322: OnProcessCommand', 'TProcessCommandEvent', iptrw);
20323: BookMarkOptions', 'TSynBookMarkOpt', iptrw);
20324: BorderStyle', 'TSynBorderStyle', iptrw);
20325: ExtraLineSpacing', 'integer', iptrw);
20326: Gutter', 'TSynGutter', iptrw);
20327: HideSelection', 'boolean', iptrw);
20328: InsertCaret', 'TSynEditCaretType', iptrw);
20329: InsertMode', 'boolean', iptrw);
20330: IsScrolling', 'Boolean', iptr);
20331: Keystrokes', 'TSynEditKeyStrokes', iptrw);
20332: MaxUndo', 'Integer', iptrw);
20333: Options', 'TSynEditorOptions', iptrw);
20334: OverwriteCaret', 'TSynEditCaretType', iptrw);
20335: RightEdge', 'Integer', iptrw); RightEdgeColor', 'TColor', iptrw);
20336: ScrollHintColor', 'TColor', iptrw);
20337: ScrollHintFormat', 'TScrollHintFormat', iptrw);
20338: ScrollBars', 'TScrollStyle', iptrw);
20339: SelectedColor', 'TSynSelectedColor', iptrw);
20340: SelectionMode', 'TSynSelectionMode', iptrw);
20341: ActiveSelectionMode', 'TSynSelectionMode', iptrw);
20342: TabWidth', 'integer', iptrw); WantReturns', 'boolean', iptrw);
20343: WantTabs', 'boolean', iptrw); WordWrap', 'boolean', iptrw);
20344: WordWrapGlyph', 'TSynGlyph', iptrw);
20345: OnChange', 'TNotifyEvent', iptrw);
20346: OnClearBookmark', 'TPlaceMarkEvent', iptrw);
20347: OnCommandProcessed', 'TProcessCommandEvent', iptrw);
20348: OnContextHelp', 'TContextHelpEvent', iptrw);
20349: OnDropFiles', 'TDropFilesEvent', iptrw);
20350: OnGutterClick', 'TGutterClickEvent', iptrw);

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20351:     OnGutterGetText', 'TGutterGetTextEvent', iptrw);
20352:     OnGutterPaint', 'TGutterPaintEvent', iptrw);
20353:     OnMouseCursor', 'TMouseEvent', iptrw);
20354:     OnPaint', 'TPaintEvent', iptrw);
20355:     OnPlaceBookmark', 'TPlaceMarkEvent', iptrw);
20356:     OnProcessUserCommand', 'TProcessCommandEvent', iptrw);
20357:     OnReplaceText', 'TReplaceTextEvent', iptrw);
20358:     OnSpecialLineColors', 'TSpecialLineColorsEvent', iptrw);
20359:     OnStatusChange', 'TStatusChangeEvent', iptrw);
20360:     OnPaintTransient', 'TPaintTransient', iptrw);
20361:     OnScroll', 'TScrollEvent', iptrw);
20362:   end;
20363: Procedure RegisterPlaceableHighlighter(highlighter : TSynCustomHighlighterClass)
20364: Function GetPlaceableHighlighters : TSynHighlighterList
20365: Function EditorCommandToDescrString( Cmd : TSynEditorCommand) : string
20366: Function EditorCommandToCodeString( Cmd : TSynEditorCommand) : string
20367: Procedure GetEditorCommandValues( Proc : TGetStrProc)
20368: Procedure GetEditorCommandExtended( Proc : TGetStrProc)
20369: Function IdentToEditorCommand( const Ident : string; var Cmd : longint) : boolean
20370: Function EditorCommandToIdent( Cmd : longint; var Ident : string) : boolean
20371: Function ConvertCodeStringToExtended( AString : String) : String
20372: Function ConvertExtendedToCodeString( AString : String) : String
20373: Function ConvertExtendedToCommand( AString : String) : TSynEditorCommand
20374: Function ConvertCodeStringToCommand( AString : String) : TSynEditorCommand
20375: Function IndexToEditorCommand( const AIndex : Integer) : Integer
20376:
20377: TSynEditorOption = (
20378:   eoAltSetsColumnMode,           //Holding down the Alt Key will put the selection mode into columnar format
20379:   eoAutoIndent,                //Will indent caret on newlines with same amount of leading whitespace as
20380:   eoAutoSizeMaxScrollWidth,    //Automatically resizes the MaxScrollWidth property when inserting text
20381:   eoDisableScrollArrows,       //Disables the scroll bar arrow buttons when you can't scroll in that
20382:   eoDragDropEditing,          //Allows to select a block of text and drag it within document to another
20383:   eoDropFiles,                 //Allows the editor accept OLE file drops
20384:   eoEnhanceHomeKey,           //enhances home key positioning, similar to visual studio
20385:   eoEnhanceEndKey,            //enhances End key positioning, similar to JDeveloper
20386:   eoGroupUndo,                 //When undoing/redoing actions, handle all continous changes the same kind
20387:   eoHalfPageScroll,            //in one call
20388:   eoHideShowScrollbars,        //instead undoing/redoing each command separately
20389:   eoNoCaret,                  //When scrolling with page-up and page-down commands, only scroll a half
20390:   eoNoSelection,               //page at a time
20391:   eoRightMouseMovesCursor,    //if enabled, then scrollbars will only show if necessary.
20392:   eoScrollByOneLess,           //if you have ScrollPasteEOL, then it the horizontal bar will always be there (it uses MaxLength instead)
20393:   eoScrollHintFollows,         //When moving through lines w/o cursor Past EOL, keeps X position of cursor
20394:   eoScrollPastEof,             //Makes it so the caret is never visible
20395:   eoScrollPastEol,             //Disables selecting text
20396:   eoShowScrollHint,            //When clicking with right mouse for popup menu, moves cursor to location
20397:   eoShowSpecialChars,          //Forces scrolling to be one less
20398:   eoSmartTabDelete,            //The scroll hint follows the mouse when scrolling vertically
20399:   eoSmartTabs,                 //Allows the cursor to go past the end of file marker
20400:   eoSpecialLineDefaultFg,      //Allows cursor to go past last character into white space at end of a line
20401:   eoTabIndent,                  //Shows a hint of the visible line numbers when scrolling vertically
20402:   eoTabsToSpaces,               //Shows the special Characters
20403:   eoTrimTrailingSpaces,        //similar to Smart Tabs, but when you delete characters
20404:   eoWordCount,                  //When tabbing, cursor will go to non-white space character of previous line
20405:   eoWordSelect,                 //disables the foreground text color override using OnSpecialLineColor event
20406:   eoWordUnderline,              //If active <Tab>and<Shift><Tab> act block indent,unindent when text select
20407:   eoWordWrap,                   //Converts a tab character to a specified number of space characters
20408:   eoWordWrapLength,             //Spaces at the end of lines will be trimmed and not saved
20409: 
20410:   *****Important Editor Short Cuts*****;
20411: Double click to select a word and count words with highlightning.
20412: Triple click to select a line.
20413: CTRl+SHIFT+click to extend a selection.
20414: Drag with the ALT key down to select columns of text !!!
20415: Drag and drop is supported.
20416: Type CTRl+Z to undo and SHIFT+CTRL+Z to redo.
20417: Type CTRl+A to select all.
20418: Type CTRl+N to set a new line.
20419: Type CTRl+T to delete a line or token. //Tokenizer
20420: Type CTRl+C to copy to clipboard. Type CTRl+V to paste from clipboard.
20421: Type CTRl+Shift+T to add ToDo in line and list.
20422: Type CTRl+Shift+[0..9] to set bookmarks. //Bookmark
20423: Type CTRl[0..9] to jump or get to bookmarks.
20424: Type Home to position cursor at beginning of current line and End to position it at end of line.
20425: Type CTRl+Home to position cursor at start of doc and CTRl+End to position it at end of document.
20426: Page Up and Page Down work as expected.
20427: CTRl+Page Up sends cursor to top of viewed portion and CTRl+Page Down sends it to bottom.
20428: using http://pp4s.co.uk/main/tu-form2-help-demo-laz.html
20429: 
20430: 
20431: 
20432: 
20433: {# Short Key Positions Ctrl<A-Z>: }
20434: def
20435:   <A> Select All
20436:   <B> Count Words
20437:   <C> Copy
20438:   <D> Internet Start
20439:   <E> Script List

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20440:   <F> Find
20441:   <G> Goto
20442:   <H> Mark Line
20443:   <I> Interface List
20444:   <J> Code Completion
20445:   <K> Console
20446:   <L> Interface List Box
20447:   <M> Font Larger -
20448:   <N> New Line
20449:   <O> Open File
20450:   <P> Font Smaller +
20451:   <Q> Quit
20452:   <R> Replace
20453:   <S> Save!
20454:   <T> Delete Line
20455:   <U> Use Case Editor
20456:   <V> Paste
20457:   <W> URI Links
20458:   <X> Reserved for coding use internal
20459:   <Y> Delete Line
20460:   <Z> Undo
20461:
20462: ref
20463:   F1 Help
20464:   F2 Syntax Check
20465:   F3 Search Next
20466:   F4 New Instance
20467:   F5 Line Mark /Breakpoint
20468:   F6 Goto End
20469:   F7 Debug Step Into
20470:   F8 Debug Step Out
20471:   F9 Compile
20472:   F10 Menu
20473:   F11 Word Count Highlight
20474:   F12 Reserved for coding use internal
20475:
20476: def ReservedWords: array[0..82] of string =
20477:   ('and', 'array', 'as', 'asm', 'at', 'begin', 'case', 'class', 'const',
20478:    'constructor', 'default', 'destructor', 'dispinterface', 'div', 'do',
20479:    'downto', 'else', 'end', 'except', 'exports', 'file', 'finalization',
20480:    'finally', 'for', 'function', 'goto', 'if', 'implementation', 'in',
20481:    'inherited', 'initialization', 'inline', 'interface', 'is', 'label',
20482:    'library', 'message', 'mod', 'nil', 'not', 'object', 'of', 'on', 'or',
20483:    'out', 'packed', 'procedure', 'program', 'property', 'raise', 'read',
20484:    'record', 'repeat', 'resourcestring', 'set', 'shl', 'shr', 'string',
20485:    'stored', 'then', 'threadvar', 'to', 'try', 'type', 'unit', 'until',
20486:    'uses', 'var', 'while', 'with', 'writeln', 'xor', 'private', 'protected',
20487:    'public', 'published', 'def', 'ref', 'using', 'typedef', 'memo1', 'memo2', 'doc', 'maxform1';
20488: AllowedChars: array[0..5] of string = ('(', ')', '[', ']', ',', ',', t,t1,t2,t3: boolean;
20489: //-----
20490: //*****End of mx4 Public Tools API *****
20491: //-----
20492:
20493: Amount of Functions: 13078
20494: Amount of Procedures: 8039
20495: Amount of Constructors: 1296
20496: Totals of Calls: 22413
20497: SHA1: Win Exe 3.9.9.98 693C7F691584E518E87CF5BFFC315A5442777781
20498:
20499:
20500: ****
20501: Doc Short Manual with 50 Tips!
20502: ****
20503: - Install: just save your maxboxdef.ini before and then extract the zip file!
20504: - Toolbar: Click on the red maxbox Sign (right on top) opens your work directory or jump to <Help>
20505: - Menu: With <F2> you check syntax with <F8> you debug and <F9> you compile!
20506: - Menu: With <Ctrl><F3> you can search for code on examples
20507: - Menu: Open in menu Output a new instance <F4> of the box to compare or prepare your scripts
20508: - Menu: Set Interface Naviagator in menu /View/Intf Navigator
20509: - Menu: Switch or toogle between the last 2 scripts in menu File/LoadLast (History is set to 9 files)
20510:
20511: - Inifile: Set memory report in ini: MEMORYREPORT=Y :report on memory leaks on shutdown by dialog
20512: - Inifile: Refresh (reload) the inifile after edit with ..//Help/Config Update
20513: - Context Menu: You can printout your scripts as a pdf-file or html-export
20514: - Context: You do have a context menu with the right mouse click
20515:
20516: - Menu: With the UseCase Editor you can convert graphic formats too.
20517: - Menu: On menu Options you find Addons as compiled scripts
20518: - IDE: You don't need a mouse to handle maxbox, use shortcuts
20519: - Menu: Check Options/ProcessMessages! if something is wrong or you can't see graphics in a time
20520: - IDE: Dragndrop your scripts in box or the model in use case editor (Cut,Copy,Paste always available)
20521: - Editor: You can get templates as code completion with <ctrl j> in editor like classp or interface
20522:   or timer (you type classp and then CTRL J), or you type tstringlist and <Ctrl><J>
20523:
20524: - Menu: In menu output (console) you can set output menu in edit mode by unchecking <read only output>
20525: - Editor: After the end. you can write or copy notes or descriptions concerning the app or code
20526: - Code: If you code a loop till key-pressed use function: isKeyPressed;
20527: - Code: Macro set the macros #name,, #paAdministrator, #file,startmaxbox_extract_funcList399.txt
20528: - Code: change Syntax in autoboot macro 'maxbootscript.txt'

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20529: - Editor: - <F11> Click on Word in Editor search amount of words with highlighting, Dbl Click on Bookmarks
20530:           to delete and Click and mark to drag a bookmark
20531: - Menu: To start handling from CD-ROM (read only mode) uncheck in Menu /Options/Save before Compile
20532: - IDE: A file info with system and script information you find in menu Program/Information
20533: - IDE: After change the config file in help you can update changes in menu Help/Config Update
20534: - IDE: Make a screenshot of the content and environment in menu Output/Save Screenshot
20535: - IDE: Use a boot loader script 'maxbootscript.txt' (as auto start) to change box each time you start it.
20536: - IDE: With escape or <Ctrl> Q you can also leave the box or stop a script in menu program - stop program
20537: - Editor: Set Bookmarks to check your work in app or code
20538: - Editor: With <Ctrl H> you set {Active Line Color} and F11 you get Word Count Statistic on Output too
20539: - Editor: With //TODO: some description or DONE you set code entries for ToDo List in ..../Help/ToDo List
20540: - Editor: With <Ctrl W> you set active URL links in your code to test availability in Context Menu
20541:
20542: - IDE with menu /Options/ADO SQL Workbench you can manage your Database
20543: - Context Menu: You can write your docus with RichEdit RTF printout /Editor Form Options/Richedit
20544: - Menu: Set Interface Naviagator also with toggle <Ctrl L> or /View/Inft Navigator
20545: - Toolbar: In menu /View switch Off Toolbar and Coolbar to get more coding space
20546: - Code: Put some resources in your code /Help/Resource Explorer like bitbtn, forms, dialogs;
20547: - Code Editor: Compile with <F9> but also Alt C in case <F9> isn't available;
20548: - IDE set bookmarks with <Ctrl Shift> (0..9) and jump with <Ctrl> (0..9)
20549: - IDE menu /Help/Tools/ write with RTF Editor or open a DOS Shell or browse
20550:
20551: - Add on write your Requirements in RTF Docu with <CTRL ALT R> in context menu
20552: - Add on when no browser is available start /Options/Add ons/Easy Brower
20553: - Add on SOAP Tester with SOP POST File
20554: - Add on IP Protocol Sniffer with List View
20555: - Add on OpenGL mX Robot Demo for android
20556:
20557: - Menu: Help/Tools as a Tool Section with DOS Opener
20558: - Menu Editor: export the code as RTF File
20559: - Menu: Help/Tools/Syn Export your code as available in HTML or RTF
20560: - Menu: Help/Tools/ with <Alt H-S-D> you start the DOS Shell
20561: - Context: Auto Detect of Syntax depending on file extension
20562: - Code: some Windows API function start with w in the name like wGetAtomName();
20563: - IDE Close - if you cant close the box then reset it <Ctrl F2> in menu /Debug
20564: - IDE File Check with menu ..View/File Changes/...
20565: - Context: Create a Header with Create Header in Navigator List at right window
20566: - Code: use SysErrorMessage to get a real Error Description, Ex.
20567:     RemoveDir('c:\NoSuchFolder');
20568:     writeln('System Error Message: ' + SysErrorMessage(GetLastError));
20569: - IDE getWebScript from a URL with menu ..Help/Get Web Script/...
20570:
20571: - using DLL example in maxBox: //function: *****
20572:     Function GetProcessMemoryInfo(Process: THandle; var MemoryCounters: TProcessMemoryCounters;
20573:                                         cb: DWORD): BOOL; //stdcall;
20574:     External 'GetProcessMemoryInfo@psapi.dll stdcall';
20575:     Function OpenProcess(dwDesiredAccess:DWORD; bInheritHandle:BOOL; dwProcessId: DWORD):THandle;
20576:     External 'OpenProcess@kernel32.dll stdcall';
20577:
20578: GCC Compile Ex Script
20579: procedure TFormMain_btnCompileClick(Sender: TObject);
20580: begin
20581:   AProcess:= TProcess.Create(Nil);
20582:   try
20583:     AProcess.CommandLine := 'gcc.exe "' + OpenDialog1.FileName + '"'
20584:     + ' -o "' + OpenDialog2.FileName + '"';
20585:     AProcess.Options:= AProcess.Options + [poWaitOnExit, poUsePipes];
20586:     AProcess.Execute;
20587:     Memo2.Lines.BeginUpdate;
20588:     Memo2.Lines.Clear;
20589:     Memo2.Lines.LoadFromStream(AProcess.Output);
20590:     Memo2.Lines.EndUpdate;
20591:   finally
20592:     AProcess.Free;
20593:   end;
20594: end;
20595:
20596:
20597: History Shell Hell
20598: PCT Precompile Technology , mX4 ScriptStudio
20599: Indy, JCL, Jedi, VCL, Sysools, TurboPower, Fundamentals, ExtendedRTL, Synedit
20600: DMath, devC, Graphics32, ExtPascal, mX4, LCL, CLX, FCL, CPort and more
20601: emax layers: system-package-component-unit-class-function-block
20602: new keywords def ref using maxCalcF
20603: UML: use case act class state seq pac comp dep - lib lab
20604: FBX Lib, psAPI, SMS Cell Module, OpenGL, Borland Tools
20605: Tutorials, 30 Units add, VCL constructors, controls plus, unit list
20606: 2 Tutorials, 36 Units add, Synapse V40, LDAP, OpenSSL, AVScan
20607: 1 Report, 15 Units add, DBCtrls, Stream+, IRadio, Wininet
20608: 1 DLL Report, 24 Units add, DRTTable, Remote+, Cindy functions!
20609: DLL Report, UML Tutor, 32 Units add, DRTTable, Remote+, Cindy functions!
20610: Oscilloscope V4, Mixer, 17 Units add, URLMon, Form properties+, mathmax
20611: SendBuffer, Color+Caption hack, ComboSet, SetPrivilege, WakeOnLAN, ParaDice 3D Cube Polygraph, OCR
20612: GetScript or GetWebScript, GPS Example, Profiler, Checkers, Toolbox commons
20613: Add 15 Units, Wav resources, RoundTo, OpenOffice, Pipes
20614: TFixedCriticalSection, XPlatform beta, GCC Command Pipe
20615: Inno Install and Setup Routines
20616: Add 32 Units, Wav res, RoundTo, OpenOffice, Pipes, GSM2
20617: TFixedCriticalSection, XPlatform beta, GCC Command Pipe

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20618: VfW (Video), FindFirst3, ResFiler, AssemblyCache
20619:
20620:
20621: https://unibe-ch.academia.edu/MaxKleiner
20622: www.slideshare.net/maxkleiner1
20623: http://www.scribd.com/max_kleiner
20624: http://www.delphiforfun.org/Programs/Utilities/index.htm
20625: http://www.slideshare.net/maxkleiner1
20626: http://s3.amazonaws.com/PreviewLinks/22959.html
20627: http://www.softwareschule.ch/arduino_training.pdf
20628: http://www.jrsoftware.org/isinfo.php
20629: http://www.be-precision.com/products/precision-builder/express/
20630: http://www.blaisepascal.eu/
20631:
20632:
20633:
20634:
20635:
20636:
20637:
20638: ****
20639: unit List asm internal end
20640: ****
20641: 01 unit RIRegister_Utils_Routines(exec); //Delphi
20642: 02 unit SIRegister_IdStrings //Indy Sockets
20643: 03 unit RIRegister_niSTRING_Routines(Exec); //from RegEx
20644: 04 unit uPSI_fMain Functions; //maXbox Open Tools API
20645: 05 unit IFSI_WinFormlpuzzle; //maXbox
20646: 06 unit RIRegister_LinarBitmap_Routines(Exec); //ImagefileLibBCB
20647: 07 unit RegisterDateTimeLibrary_R(exec); //Delphi
20648: 08 unit RIRegister_MathMax_Routines(exec); //Jedi & Delphi
20649: 09 unit RIRegister_IdGlobal_Routines(exec); //Indy Sockets
20650: 10 unit RIRegister_SysUtils_Routines(Exec); //Delphi
20651: 11 unit uPSI_IdTCPConnection; //Indy some functions
20652: 12 unit uPSCompiler.pas; //PS kernel functions
20653: 13 unit uPSI_DBCommon; //DB Common_Routines and Types
20654: 14 unit uPSI_Printers.pas //Delphi VCL
20655: 15 unit uPSI_MPlayer.pas //Delphi VCL
20656: 16 unit uPSC_comobj; //COM Functions
20657: 17 unit uPSI_Clipbrd; //Delphi VCL
20658: 18 unit Filectrl in IFSI_SysUtils_max; //VCL Runtime
20659: 19 unit uPSI_SQLExpr; //DBX3
20660: 20 unit uPSI_ADOdb; //ADODB
20661: 21 unit uPSI_StrHlpr; //String Helper Routines
20662: 22 unit uPSI_DateUtils; //Expansion to DateTimeLib
20663: 23 unit uPSI_FileUtils; //Expansion to Sys/File Utils
20664: 24 unit JUutils / gsUtils; //Jedi / Metabase
20665: 25 unit JVFunctions_max; //Jedi Functions
20666: 26 unit HTTPParser; //Delphi VCL
20667: 27 unit HTTPUtil; //Delphi VCL
20668: 28 unit uPSI_XMLUtil; //Delphi VCL
20669: 29 unit uPSI_SOAPHTTPClient; //Delphi VCL SOAP WebService V3.5
20670: 30 unit uPSI_Contrns; //Delphi RTL Container of Classes
20671: 31 unit uPSI_MaskUtils; //RTL Edit and Mask functions
20672: 32 unit uPSI_MyBigInt; //big integer class with Math
20673: 33 unit uPSI_ConvUtils; //Delphi VCL Conversions engine
20674: 34 unit Types_Variants; //Delphi\Win32\rtl\sys
20675: 35 unit uPSI_IdHashSHA1; //Indy Crypto Lib
20676: 36 unit uPSI_IdHashMessageDigest //Indy Crypto;
20677: 37 unit uPSI_IdASN1Util; //Indy ASN1Utility Routines;
20678: 38 unit uPSI_IdLogFile; //Indy Logger from LogBase
20679: 39 unit uPSI_IdICmpClient; //Indy Ping ICMP
20680: 40 unit uPSI_IdHashMessageDigest_max //Indy Crypto &OpenSSL;
20681: 41 unit uPSI_FileCtrl; //Delphi RTL
20682: 42 unit uPSI_Outline; //Delphi VCL
20683: 43 unit uPSI_ScktComp; //Delphi RTL
20684: 44 unit uPSI_Calendar; //Delphi VCL
20685: 45 unit uPSI_VlistView; //VListView;
20686: 46 unit uPSI_DBGrids; //Delphi VCL
20687: 47 unit uPSI_DBCtrls; //Delphi VCL
20688: 48 unit ide_debugoutput; //maXbox
20689: 49 unit uPSI_ComCtrls; //Delphi VCL
20690: 50 unit uPSC_stdctrls+; //Delphi VCL
20691: 51 unit uPSI_Dialogs; //Delphi VCL
20692: 52 unit uPSI_StdConvs; //Delphi RTL
20693: 53 unit uPSI_DBClient; //Delphi RTL
20694: 54 unit uPSI_DBPlatform; //Delphi RTL
20695: 55 unit uPSI_Provider; //Delphi RTL
20696: 56 unit uPSI_FMTBcd; //Delphi RTL
20697: 57 unit uPSI_DBCGrids; //Delphi VCL
20698: 58 unit uPSI_CDSUtil; //MIDAS
20699: 59 unit uPSI_VarHlpr; //Delphi RTL
20700: 60 unit uPSI_ExtDlgs; //Delphi VCL
20701: 61 unit sdpStopwatch; //maXbox
20702: 62 unit uPSI_JclStatistics; //JCL
20703: 63 unit uPSI_JclLogic; //JCL
20704: 64 unit uPSI_JclMiscel; //JCL
20705: 65 unit uPSI_JclMath_max; //JCL RTL
20706: 66 unit uPSI_uTPLb_StreamUtils; //LockBox 3

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20707: 67 unit uPSI_MathUtils;                                //BCB
20708: 68 unit uPSI_JclMultimedia;                           //JCL
20709: 69 unit uPSI_WideStrUtils;                            //Delphi API/RTL
20710: 70 unit uPSI_GraphUtil;                               //Delphi RTL
20711: 71 unit uPSI_TypeTrans;                              //Delphi RTL
20712: 72 unit uPSI_HTTPApp;                               //Delphi VCL
20713: 73 unit uPSI_DBWeb;                                 //Delphi VCL
20714: 74 unit uPSI_DBBdeWeb;                             //Delphi VCL
20715: 75 unit uPSI_DBXpressWeb;                           //Delphi VCL
20716: 76 unit uPSI_ShadowWnd;                            //Delphi VCL
20717: 77 unit uPSI_ToolWin;                             //Delphi VCL
20718: 78 unit uPSI_Tabs;                                //Delphi VCL
20719: 79 unit uPSI_JclGraphUtils;                         //JCL
20720: 80 unit uPSI_JclCounter;                            //JCL
20721: 81 unit uPSI_JclSysInfo;                            //JCL
20722: 82 unit uPSI_JclSecurity;                           //JCL
20723: 83 unit uPSI_JclFileUtils;                          //JCL
20724: 84 unit uPSI_IdUserAccounts;                        //Indy
20725: 85 unit uPSI_IdAuthentication;                      //Indy
20726: 86 unit uPSI_uTPLb_AES;                            //LockBox 3
20727: 87 unit uPSI_IdHashSHA1;                           //LockBox 3
20728: 88 unit uTPLb_BlockCipher;                          //LockBox 3
20729: 89 unit uPSI_ValEdit.pas;                           //Delphi VCL
20730: 90 unit uPSI_JvVCLUtils;                            //JCL
20731: 91 unit uPSI_JvDBUtil;                             //JCL
20732: 92 unit uPSI_JvDBUtils;                            //JCL
20733: 93 unit uPSI_JvAppUtils;                           //JCL
20734: 94 unit uPSI_JvCtrlUtils;                          //JCL
20735: 95 unit uPSI_JvFormToHtml;                          //JCL
20736: 96 unit uPSI_JvParsing;                            //JCL
20737: 97 unit uPSI_SerDlg;                             //Toolbox
20738: 98 unit uPSI_Serial;                            //Toolbox
20739: 99 unit uPSI_JvComponent;                          //JCL
20740: 100 unit uPSI_JvCalc;                             //JCL
20741: 101 unit uPSI_JvBdeUtils;                          //JCL
20742: 102 unit uPSI_JvDateUtil;                          //JCL
20743: 103 unit uPSI_JvGenetic;                           //JCL
20744: 104 unit uPSI_JclBase;                            //JCL
20745: 105 unit uPSI_JvUtils;                            //JCL
20746: 106 unit uPSI_JvStrUtil;                           //JCL
20747: 107 unit uPSI_JvStrUtils;                          //JCL
20748: 108 unit uPSI_JvFileUtil;                           //JCL
20749: 109 unit uPSI_JvMemoryInfos;                      //JCL
20750: 110 unit uPSI_JvComputerInfo;                      //JCL
20751: 111 unit uPSI_JvgCommClasses;                     //JCL
20752: 112 unit uPSI_JvgLogics;                           //JCL
20753: 113 unit uPSI_JvLED;                             //JCL
20754: 114 unit uPSI_JvTurtle;                            //JCL
20755: 115 unit uPSI_SortThds; unit uPSI_ThSort;        //maxBox
20756: 116 unit uPSI_JvgUtils;                           //JCL
20757: 117 unit uPSI_JvExprParser;                        //JCL
20758: 118 unit uPSI_HexDump;                            //Borland
20759: 119 unit uPSI_DBLogDlg;                           //VCL
20760: 120 unit uPSI_SqlTimSt;                           //RTL
20761: 121 unit uPSI_JvHtmlParser;                        //JCL
20762: 122 unit uPSI_JvgXMLSerializer;                   //JCL
20763: 123 unit uPSI_JvJCLUtils;                          //JCL
20764: 124 unit uPSI_JvStrings;                           //TurboPower
20765: 125 unit uPSI_uTPLb_IntegerUtils;                  //TurboPower
20766: 126 unit uPSI_uTPLb_HugeCardinal;                 //TurboPower
20767: 127 unit uPSI_uTPLb_HugeCardinalUtils;            //TurboPower
20768: 128 unit uPSI_SynRegExpr;                          //SynEdit
20769: 129 unit uPSI_StUtils;                            //SysTools4
20770: 130 unit uPSI_StToHTML;                           //SysTools4
20771: 131 unit uPSI_StStrms;                           //SysTools4
20772: 132 unit uPSI_StFIN;                            //SysTools4
20773: 133 unit uPSI_StAstroP;                           //SysTools4
20774: 134 unit uPSI_StStat;                            //SysTools4
20775: 135 unit uPSI_StNetCon;                           //SysTools4
20776: 136 unit uPSI_StDecMth;                           //SysTools4
20777: 137 unit uPSI_StOStr;                            //SysTools4
20778: 138 unit uPSI_StPtrns;                           //SysTools4
20779: 139 unit uPSI_StNetMsg;                           //SysTools4
20780: 140 unit uPSI_StMath;                            //SysTools4
20781: 141 unit uPSI_StExpEng;                           //SysTools4
20782: 142 unit uPSI_StCRC;                            //SysTools4
20783: 143 unit uPSI_StExport;                           //SysTools4
20784: 144 unit uPSI_StExplLog;                          //SysTools4
20785: 145 unit uPSI_ActnList;                           //Delphi VCL
20786: 146 unit uPSI_jpeg;                             //Borland
20787: 147 unit uPSI_StRandom;                           //SysTools4
20788: 148 unit uPSI_StDict;                            //SysTools4
20789: 149 unit uPSI_StBCD;                            //SysTools4
20790: 150 unit uPSI_StTxtDat;                           //SysTools4
20791: 151 unit uPSI_StRegEx;                           //SysTools4
20792: 152 unit uPSI_IMouse;                            //VCL
20793: 153 unit uPSI_SyncObjs;                           //VCL
20794: 154 unit uPSI_AsyncCalls;                         //Hausladen
20795: 155 unit uPSI_ParallelJobs;                      //Saraiva

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20796: 156 unit uPSI_Variants;                                //VCL
20797: 157 unit uPSI_VarCmplx;                               //VCL Wolfram
20798: 158 unit uPSI_DTDSchema;                             //VCL
20799: 159 unit uPSI_ShlwApi;                               //Brakel
20800: 160 unit uPSI_IBUtils;                               //VCL
20801: 161 unit uPSI_CheckLst;                             //VCL
20802: 162 unit uPSI_JvSimpleXml;                           //JCL
20803: 163 unit uPSI_JclSimpleXml;                          //JCL
20804: 164 unit uPSI_JvXmlDatabase;                         //JCL
20805: 165 unit uPSI_JvMaxPixel;                            //JCL
20806: 166 unit uPSI_JvItemsSearchs;                        //JCL
20807: 167 unit uPSI_StExpEng2;                            //SysTools4
20808: 168 unit uPSI_StGenLog;                            //SysTools4
20809: 169 unit uPSI_JvLogFile;                            //Jcl
20810: 170 unit uPSI_CPort;                                //ComPort Lib v4.11
20811: 171 unit uPSI_CPortCtl;                            //ComPort
20812: 172 unit uPSI_CPortEsc;                            //ComPort
20813: 173 unit BarCodeScaner;                            //ComPort
20814: 174 unit uPSI_JvGraph;                            //JCL
20815: 175 unit uPSI_JvComCtrls;                          //JCL
20816: 176 unit uPSI_GUITesting;                          //D Unit
20817: 177 unit uPSI_JvFindFiles;                          //JCL
20818: 178 unit uPSI_StSystem;                            //SysTools4
20819: 179 unit uPSI_JvKeyboardStates;                     //JCL
20820: 180 unit uPSI_JvMail;                             //JCL
20821: 181 unit uPSI_JclConsole;                          //JCL
20822: 182 unit uPSI_JclLANman;                          //JCL
20823: 183 unit uPSI_IdCustomHTTPServer;                   //Indy
20824: 184 unit IdHTTPServer;                            //Indy
20825: 185 unit uPSI_IdTCPServer;                         //Indy
20826: 186 unit uPSI_IdSocketHandle;                      //Indy
20827: 187 unit uPSI_IdIOHandlerSocket;                   //Indy
20828: 188 unit IdIOHandler;                            //Indy
20829: 189 unit uPSI_cutils;                            //Bloodshed
20830: 190 unit uPSI_BoldUtils;                           //boldsoft
20831: 191 unit uPSI_IdSimpleServer;                      //Indy
20832: 192 unit uPSI_IdSSLOpenSSL;                        //Indy
20833: 193 unit uPSI_IdMultipartFormData;                  //Indy
20834: 194 unit uPSI_SynURIOpener;                        //SynEdit
20835: 195 unit uPSI_PerlRegEx;                           //PCRE
20836: 196 unit uPSI_IdHeaderList;                        //Indy
20837: 197 unit uPSI_StFirst;                            //SysTools4
20838: 198 unit uPSI_JvCtrls;                            //JCL
20839: 199 unit uPSI_IdTrivialFTPBase;                    //Indy
20840: 200 unit uPSI_IdTrivialFTP;                        //Indy
20841: 201 unit uPSI_IdUDPBase;                           //Indy
20842: 202 unit uPSI_IdUDPClient;                         //Indy
20843: 203 unit uPSI_utypes;                            //for DMath.DLL
20844: 204 unit uPSI_ShellAPI;                           //Borland
20845: 205 unit uPSI_IdRemoteCMDClient;                   //Indy
20846: 206 unit uPSI_IdRemoteCMDServer;                   //Indy
20847: 207 unit IdRexecServer;                           //Indy
20848: 208 unit IdRexec; (unit uPSI_IdRexec;)           //Indy
20849: 209 unit IdUDPServer;                            //Indy
20850: 210 unit IdTimeUDPServer;                         //Indy
20851: 211 unit IdTimeServer;                            //Indy
20852: 212 unit IdTimeUDP; (unit uPSI_IdUDPServer;)      //Indy
20853: 213 unit uPSI_IdIPWatch;                           //Indy
20854: 214 unit uPSI_IdIrcServer;                         //Indy
20855: 215 unit uPSI_IdMessageCollection;                 //Indy
20856: 216 unit uPSI_cPEM;                             //Fundamentals 4
20857: 217 unit uPSI_cFundamentUtils;                     //Fundamentals 4
20858: 218 unit uPSI_uwinplot;                           //DMath
20859: 219 unit uPSI_xrtl_util_CPUUtils;                  //ExtendedRTL
20860: 220 unit uPSI_GR32_System;                         //Graphics32
20861: 221 unit uPSI_cFileUtils;                          //Fundamentals 4
20862: 222 unit uPSI_cDateTime; (timemachine)            //Fundamentals 4
20863: 223 unit uPSI_cTimers; (high precision timer)     //Fundamentals 4
20864: 224 unit uPSI_cRandom;                            //Fundamentals 4
20865: 225 unit uPSI_ueval;                             //DMath
20866: 226 unit uPSI_xrtl_net_URIUtils;                  //ExtendedRTL
20867: 227 unit xrtl_net_URIUtils;                       //ExtendedRTL
20868: 228 unit uPSI_ufft; (FFT)                         //DMath
20869: 229 unit uPSI_DBXChannel;                          //Delphi
20870: 230 unit uPSI_DBXIndyChannel;                      //Delphi Indy
20871: 231 unit uPSI_xrtl_util_COMCat;                   //ExtendedRTL
20872: 232 unit uPSI_xrtl_util_StrUtils;                 //ExtendedRTL
20873: 233 unit uPSI_xrtl_util_VariantUtils;             //ExtendedRTL
20874: 234 unit uPSI_xrtl_util_FileUtils;                 //ExtendedRTL
20875: 235 unit xrtl_util_Compat;                        //ExtendedRTL
20876: 236 unit uPSI_OleAuto;                            //Borland
20877: 237 unit uPSI_xrtl_util_COMUtils;                  //ExtendedRTL
20878: 238 unit uPSI_CmAdmCtl;                            //Borland
20879: 239 unit uPSI_ValEdit2;                           //VCL
20880: 240 unit uPSI_GR32; //Graphics32                //Graphics32
20881: 241 unit uPSI_GR32_Image;                          //Graphics32
20882: 242 unit uPSI_xrtl_util_TimeUtils;                 //ExtendedRTL
20883: 243 unit uPSI_xrtl_util_TimeZone;                  //ExtendedRTL
20884: 244 unit uPSI_xrtl_util_TimeStamp;                 //ExtendedRTL

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20885: 245 unit uPSI_xrtl_util_Map; //ExtendedRTL
20886: 246 unit uPSI_xrtl_util_Set; //ExtendedRTL
20887: 247 unit uPSI_CPortMonitor; //ComPort
20888: 248 unit uPSI_StInistm; //SysTools4
20889: 249 unit uPSI_GR32_ExtImage; //Graphics32
20890: 250 unit uPSI_GR32_OrdinalMaps; //Graphics32
20891: 251 unit uPSI_GR32_Rasterizers; //Graphics32
20892: 252 unit uPSI_xrtl_util_Exception; //ExtendedRTL
20893: 253 unit uPSI_xrtl_util_Value; //ExtendedRTL
20894: 254 unit uPSI_xrtl_util_Compare; //ExtendedRTL
20895: 255 unit uPSI_FlatSB; //VCL
20896: 256 unit uPSI_JvAnalogClock; //JCL
20897: 257 unit uPSI_JvAlarms; //JCL
20898: 258 unit uPSI_JvSQLS; //JCL
20899: 259 unit uPSI_JvDBSecur; //JCL
20900: 260 unit uPSI_JvDBQBE; //JCL
20901: 261 unit uPSI_JvStarfield; //JCL
20902: 262 unit uPSI_JVCLMiscal; //JCL
20903: 263 unit uPSI_JvProfiler32; //JCL
20904: 264 unit uPSI_JvDirectories; //JCL
20905: 265 unit uPSI_JclSchedule; //JCL
20906: 266 unit uPSI_JclSvcCtrl; //JCL
20907: 267 unit uPSI_JvSoundControl; //JCL
20908: 268 unit uPSI_JvBDESQLScript; //JCL
20909: 269 unit uPSI_JvgDigits; //JCL>
20910: 270 unit uPSI_ImgList; //TCustomImageList
20911: 271 unit uPSI_JclMIDI; //JCL>
20912: 272 unit uPSI_JclWinMidi; //JCL>
20913: 273 unit uPSI_JclNTFS; //JCL>
20914: 274 unit uPSI_JclAppInst; //JCL>
20915: 275 unit uPSI_JvRle; //JCL>
20916: 276 unit uPSI_JvRas32; //JCL>
20917: 277 unit uPSI_JvImageDrawThread; //JCL>
20918: 278 unit uPSI_JvImageWindow; //JCL>
20919: 279 unit uPSI_JvTransparentForm; //JCL>
20920: 280 unit uPSI_JvWinDialogs; //JCL>
20921: 281 unit uPSI_JvSimLogic; //JCL>
20922: 282 unit uPSI_JvSimIndicator; //JCL>
20923: 283 unit uPSI_JvSimPID; //JCL>
20924: 284 unit uPSI_JvSimPIDLinker; //JCL>
20925: 285 unit uPSI_IdRFCReply; //Indy
20926: 286 unit uPSI_IdIdent; //Indy
20927: 287 unit uPSI_IdIdentServer; //Indy
20928: 288 unit uPSI_JvPatchFile; //JCL
20929: 289 unit uPSI_StNetPfm; //SysTools4
20930: 290 unit uPSI_StNet; //SysTools4
20931: 291 unit uPSI_JclPeImage; //JCL
20932: 292 unit uPSI_JclPrint; //JCL
20933: 293 unit uPSI_JclMime; //JCL
20934: 294 unit uPSI_JvRichEdit; //JCL
20935: 295 unit uPSI_JvDBRichEd; //JCL
20936: 296 unit uPSI_JvDice; //JCL
20937: 297 unit uPSI_JvFloatEdit; //JCL 3.9.8
20938: 298 unit uPSI_JvDirFrm; //JCL
20939: 299 unit uPSI_JvDualList; //JCL
20940: 300 unit uPSI_JvSwitch; //JCL
20941: 301 unit uPSI_JvTimerLst; //JCL
20942: 302 unit uPSI_JvMemTable; //JCL
20943: 303 unit uPSI_JvObjStr; //JCL
20944: 304 unit uPSI_StLArr; //SysTools4
20945: 305 unit uPSI_StWmDCpy; //SysTools4
20946: 306 unit uPSI_StText; //SysTools4
20947: 307 unit uPSI_StNTLog; //SysTools4
20948: 308 unit uPSI_xrtl_math_Integer; //ExtendedRTL
20949: 309 unit uPSI_JvImagPrvw; //JCL
20950: 310 unit uPSI_JvFormPatch; //JCL
20951: 311 unit uPSI_JvPicClip; //JCL
20952: 312 unit uPSI_JvDataConv; //JCL
20953: 313 unit uPSI_JvCpuUsage; //JCL
20954: 314 unit uPSI_JclUnitConv_mx2; //JCL
20955: 315 unit JvDualListForm; //JCL
20956: 316 unit uPSI_JvCpuUsage2; //JCL
20957: 317 unit uPSI_JvParserForm; //JCL
20958: 318 unit uPSI_JvJanTreeView; //JCL
20959: 319 unit uPSI_JvTransLED; //JCL
20960: 320 unit uPSI_JvPlaylist; //JCL
20961: 321 unit uPSI_JvFormAutoSize; //JCL
20962: 322 unit uPSI_JvYearGridEditForm; //JCL
20963: 323 unit uPSI_JvMarkupCommon; //JCL
20964: 324 unit uPSI_JvChart; //JCL
20965: 325 unit uPSI_JvXPCore; //JCL
20966: 326 unit uPSI_JvXPCoreUtils; //JCL
20967: 327 unit uPSI_StatsClasses; //mx4
20968: 328 unit uPSI_ExtCtrls2; //VCL
20969: 329 unit uPSI_JvUrlGrabbers; //JCL
20970: 330 unit uPSI_JvXmlTree; //JCL
20971: 331 unit uPSI_JvWavePlayer; //JCL
20972: 332 unit uPSI_JvUnicodeCanvas; //JCL
20973: 333 unit uPSI_JvTFUtils; //JCL

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20974: 334 unit uPSI_IdServerIOHandler; //Indy
20975: 335 unit uPSI_IdServerIOHandlerSocket; //Indy
20976: 336 unit uPSI_IdMessageCoder; //Indy
20977: 337 unit uPSI_IdMessageCoderMIME; //Indy
20978: 338 unit uPSI_IdMIMETypes; //Indy
20979: 339 unit uPSI_JvConverter; //JCL
20980: 340 unit uPSI_JvCsvParse; //JCL
20981: 341 unit uPSI_umat; unit uPSI_ugamma; //DMath
20982: 342 unit uPSI_ExcelExport; (Nat:TJsExcelExport) //JCL
20983: 343 unit uPSI_JvDBGridExport; //JCL
20984: 344 unit uPSI_JvgExport; //JCL
20985: 345 unit uPSI_JvSerialMaker; //JCL
20986: 346 unit uPSI_JvWin32; //JCL
20987: 347 unit uPSI_JvPaintFX; //JCL
20988: 348 unit uPSI_JvOracleDataSet; (beta) //JCL
20989: 349 unit uPSI_JvValidators; (preview) //JCL
20990: 350 unit uPSI_JvNTEventLog; //JCL
20991: 351 unit uPSI_ShellZipTool; //mx4
20992: 352 unit uPSI_JvJoystick; //JCL
20993: 353 unit uPSI_JvMailSlots; //JCL
20994: 354 unit uPSI_JclComplex; //JCL
20995: 355 unit uPSI_SynPdf; //Synopse
20996: 356 unit uPSI_Registry; //VCL
20997: 357 unit uPSI_TlHelp32; //VCL
20998: 358 unit uPSI_JclRegistry; //JCL
20999: 359 unit uPSI_JvAirBrush; //JCL
21000: 360 unit uPSI_mORMotReport; //Synopse
21001: 361 unit uPSI_JclLocales; //JCL
21002: 362 unit uPSI_SynEdit; //SynEdit
21003: 363 unit uPSI_SynEditTypes; //SynEdit
21004: 364 unit uPSI_SynMacroRecorder; //SynEdit
21005: 365 unit uPSI_LongIntList; //SynEdit
21006: 366 unit uPSI_devutils; //DevC
21007: 367 unit uPSI_SynEditMiscClasses; //SynEdit
21008: 368 unit uPSI_SynEditRegexSearch; //SynEdit
21009: 369 unit uPSI_SynEditHighlighter; //SynEdit
21010: 370 unit uPSI_SynHighlighterPas; //SynEdit
21011: 371 unit uPSI_JvSearchFiles; //JCL
21012: 372 unit uPSI_SynHighlighterAny; //Lazarus
21013: 373 unit uPSI_SynEditKeyCmds; //SynEdit
21014: 374 unit uPSI_SynEditMiscProcs; //SynEdit
21015: 375 unit uPSI_SynEditKbdHandler; //SynEdit
21016: 376 unit uPSI_JvAppInst; //JCL
21017: 377 unit uPSI_JvAppEvent; //JCL
21018: 378 unit uPSI_JvAppCommand; //JCL
21019: 379 unit uPSI_JvAnimTitle; //JCL
21020: 380 unit uPSI_JvAnimatedImage; //JCL
21021: 381 unit uPSI_SynEditExport; //SynEdit
21022: 382 unit uPSI_SynExportHTML; //SynEdit
21023: 383 unit uPSI_SynExportRTF; //SynEdit
21024: 384 unit uPSI_SynEditSearch; //SynEdit
21025: 385 unit uPSI_fMain_back; //mxbox;
21026: 386 unit uPSI_JvZoom; //JCL
21027: 387 unit uPSI_PMrand; //PM
21028: 388 unit uPSI_JvSticker; //JCL
21029: 389 unit uPSI_XmlVerySimple; //mx4
21030: 390 unit uPSI_Services; //ExtPascal
21031: 391 unit uPSI_ExtPascalUtils; //ExtPascal
21032: 392 unit uPSI_SocketsDelphi; //ExtPascal
21033: 393 unit uPSI_StBarC; //SysTools
21034: 394 unit uPSI_StDbBarC; //SysTools
21035: 395 unit uPSI_StBarPN; //SysTools
21036: 396 unit uPSI_StDbPNBC; //SysTools
21037: 397 unit uPSI_StDb2DBC; //SysTools
21038: 398 unit uPSI_StMoney; //SysTools
21039: 399 unit uPSI_JvForth; //JCL
21040: 400 unit uPSI_RestRequest; //mx4
21041: 401 unit uPSI_HttpRESTConnectionIndy; //mx4
21042: 402 unit uPSI_JvXmlDatabase; //update //JCL
21043: 403 unit uPSI_StAstro; //SysTools
21044: 404 unit uPSI_StSort; //SysTools
21045: 405 unit uPSI_StDate; //SysTools
21046: 406 unit uPSI_StDateSt; //SysTools
21047: 407 unit uPSI_StBase; //SysTools
21048: 408 unit uPSI_StVInfo; //SysTools
21049: 409 unit uPSI_JvBrowseFolder; //JCL
21050: 410 unit uPSI_JvBoxProcs; //JCL
21051: 411 unit uPSI_urandom; (unit uranuvag;) //DMath
21052: 412 unit uPSI_usimann; (unit ugenalg;) //DMath
21053: 413 unit uPSI_JvHighlighter; //JCL
21054: 414 unit uPSI_Diff; //mx4
21055: 415 unit uPSI_SpringWinAPI; //DSpring
21056: 416 unit uPSI_StBits; //SysTools
21057: 417 unit uPSI_TomDBQue; //mx4
21058: 418 unit uPSI_MultilangTranslator; //mx4
21059: 419 unit uPSI_HyperLabel; //mx4
21060: 420 unit uPSI_Starter; //mx4
21061: 421 unit uPSI_FileAssocs; //devC
21062: 422 unit uPSI_devFileMonitorX; //devC

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21063: 423 unit uPSI_devrn;                                //devC
21064: 424 unit uPSI_devExec;                             //devC
21065: 425 unit uPSI_oyxUtils;                            //devC
21066: 426 unit uPSI_DosCommand;                          //devC
21067: 427 unit uPSI_CppTokenizer;                         //devC
21068: 428 unit uPSI_JvHLPParser;                          //devC
21069: 429 unit uPSI_JclMapI;                            //JCL
21070: 430 unit uPSI_JclShell;                            //JCL
21071: 431 unit uPSI_JclCOM;                             //JCL
21072: 432 unit uPSI_GR32_Math;                           //Graphics32
21073: 433 unit uPSI_GR32_LowLevel;                      //Graphics32
21074: 434 unit uPSI_SimpleHl;                            //mX4
21075: 435 unit uPSI_GR32_Filters;                        //Graphics32
21076: 436 unit uPSI_GR32_VectorMaps;                   //Graphics32
21077: 437 unit uPSI_cXMLFunctions;                      //Fundamentals 4
21078: 438 unit uPSI_JvTimer;                            //JCL
21079: 439 unit uPSI_cHTTPUtils;                          //Fundamentals 4
21080: 440 unit uPSI_cTLSUtils;                           //Fundamentals 4
21081: 441 unit uPSI_JclGraphics;                         //JCL
21082: 442 unit uPSI_JclSynch;                            //JCL
21083: 443 unit uPSI_IdTelnet;                            //Indy
21084: 444 unit uPSI_IdTelnetServer;                     //Indy
21085: 445 unit uPSI_IdEcho;                            //Indy
21086: 446 unit uPSI_IdEchoServer;                       //Indy
21087: 447 unit uPSI_IdEchoUDP;                           //Indy
21088: 448 unit uPSI_IdEchoUDPServer;                   //Indy
21089: 449 unit uPSI_IdSocks;                            //Indy
21090: 450 unit uPSI_IdAntiFreezeBase;                  //Indy
21091: 451 unit uPSI_IdHostnameServer;                   //Indy
21092: 452 unit uPSI_IdTunnelCommon;                     //Indy
21093: 453 unit uPSI_IdTunnelMaster;                    //Indy
21094: 454 unit uPSI_IdTunnelSlave;                      //Indy
21095: 455 unit uPSI_IdRSH;                            //Indy
21096: 456 unit uPSI_IdRSHServer;                        //Indy
21097: 457 unit uPSI_Spring_Cryptography_Utils;          //Spring4Delphi
21098: 458 unit uPSI_MapReader;                           //devC
21099: 459 unit uPSI_LibTar;                            //devC
21100: 460 unit uPSI_IdStack;                            //Indy
21101: 461 unit uPSI_IdBlockCipherIntercept;             //Indy
21102: 462 unit uPSI_IdChargenServer;                   //Indy
21103: 463 unit uPSI_IdFTPServer;                        //Indy
21104: 464 unit uPSI_IdException;                        //Indy
21105: 465 unit uPSI_utexplot;                           //DMath
21106: 466 unit uPSI_uwinstr;                            //DMath
21107: 467 unit uPSI_VarRecUtils;                         //devC
21108: 468 unit uPSI_JvStringListToHtml;                 //JCL
21109: 469 unit uPSI_JvStringHolder;                      //JCL
21110: 470 unit uPSI_IdCoder;                            //Indy
21111: 471 unit uPSI_SynHighlighterDfm;                 //Synedit
21112: 472 unit uHighlighterProcs; in 471              //Synedit
21113: 473 unit uPSI_LazFileUtils;                        //LCL
21114: 474 unit uPSI_IDECmdLine;                          //LCL
21115: 475 unit uPSI_lazMasks;                           //LCL
21116: 476 unit uPSI_ip_misc;                            //mX4
21117: 477 unit uPSI_Barcodes;                           //LCL
21118: 478 unit uPSI_SimpleXML;                          //LCL
21119: 479 unit uPSI_JclIniFiles;                        //JCL
21120: 480 unit uPSI_D2XXUnit; { $X- }                  //FTDI
21121: 481 unit uPSI_JclDateTime;                         //JCL
21122: 482 unit uPSI_JclEDI;                            //JCL
21123: 483 unit uPSI_JclMiscel2;                         //JCL
21124: 484 unit uPSI_JclValidation;                      //JCL
21125: 485 unit uPSI_JclAnsiStrings; {-PString}        //JCL
21126: 486 unit uPSI_SynEditMiscProcs2;                 //Synedit
21127: 487 unit uPSI_JclStreams;                          //JCL
21128: 488 unit uPSI_QRCode;                            //mX4
21129: 489 unit uPSI_BlockSocket;                        //ExtPascal
21130: 490 unit uPSI_Masks_Utils;                         //VCL
21131: 491 unit uPSI_synautil;                           //Synapse!
21132: 492 unit uPSI_JclMath_Class;                      //JCL RTL
21133: 493 unit ugamdist; //Gamma function            //DMath
21134: 494 unit uibeta, ucorrel; //IBeta               //DMath
21135: 495 unit uPSI_SRMgr;                            //mX4
21136: 496 unit uPSI_HotLog;                            //mX4
21137: 497 unit uPSI_DebugBox;                           //mX4
21138: 498 unit uPSI_ustrings;                          //DMath
21139: 499 unit uPSI uregtest;                           //DMath
21140: 500 unit uPSI_usimplex;                          //DMath
21141: 501 unit uPSI_uhyper;                            //DMath
21142: 502 unit uPSI_IdHL7;                            //Indy
21143: 503 unit uPSI_IdIPMCastBase;                   //Indy
21144: 504 unit uPSI_IdIPMCastServer;                  //Indy
21145: 505 unit uPSI_IdIPMCastClient;                  //Indy
21146: 506 unit uPSI_unlfit; //nlregression           //DMath
21147: 507 unit uPSI_IdRawHeaders;                      //Indy
21148: 508 unit uPSI_IdRawClient;                       //Indy
21149: 509 unit uPSI_IdRawFunctions;                   //Indy
21150: 510 unit uPSI_IdTCPStream;                       //Indy
21151: 511 unit uPSI_IdSNPP;                            //Indy

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21152: 512 unit uPSI_St2DBarC; //SysTools
21153: 513 unit uPSI_ImageWin; //FTL //VCL
21154: 514 unit uPSI_CustomDrawTreeView; //FTL //VCL
21155: 515 unit uPSI_GraphWin; //FTL //VCL
21156: 516 unit uPSI_actionMain; //FTL //VCL
21157: 517 unit uPSI_StSpawn; //SysTools
21158: 518 unit uPSI_CtlPanel; //VCL
21159: 519 unit uPSI_IdLPR; //Indy
21160: 520 unit uPSI_SockRequestInterpreter; //Indy
21161: 521 unit uPSI_ultimo; //DMath
21162: 522 unit uPSI_ucholesk; //DMath
21163: 523 unit uPSI_SimpleDS; //VCL
21164: 524 unit uPSI_DBXSqlScanner; //VCL
21165: 525 unit uPSI_DBXMetaDataUtil; //VCL
21166: 526 unit uPSI_Chart; //TEE
21167: 527 unit uPSI_TeeProcs; //TEE
21168: 528 unit mXBDEUtils; //mX4
21169: 529 unit uPSI_MDIEdit; //VCL
21170: 530 unit uPSI_CopyPsr; //VCL
21171: 531 unit uPSI_SockApp; //VCL
21172: 532 unit uPSI_AppEvnts; //VCL
21173: 533 unit uPSI_ExtActns; //VCL
21174: 534 unit uPSI_TeEngine; //TEE
21175: 535 unit uPSI_CoolMain; //browser //VCL
21176: 536 unit uPSI_StCRC; //SysTools
21177: 537 unit uPSI_StDecMth2; //SysTools
21178: 538 unit uPSI_frmExportMain; //Synedit
21179: 539 unit uPSI_SynDBEdit; //Synedit
21180: 540 unit uPSI_SynEditWildcardSearch; //Synedit
21181: 541 unit uPSI_BoldComUtils; //BOLD
21182: 542 unit uPSI_BoldIsoDateTime; //BOLD
21183: 543 unit uPSI_BoldGUIDUtils; //inCOMUtils //BOLD
21184: 544 unit uPSI_BoldXMLRequests; //BOLD
21185: 545 unit uPSI_BoldStringList; //BOLD
21186: 546 unit uPSI_BoldfileHandler; //BOLD
21187: 547 unit uPSI_BoldContainers; //BOLD
21188: 548 unit uPSI_BoldQueryUserDlg; //BOLD
21189: 549 unit uPSI_BoldWinINet; //BOLD
21190: 550 unit uPSI_BoldQueue; //BOLD
21191: 551 unit uPSI_JvPcx; //JCL
21192: 552 unit uPSI_IdWhois; //Indy
21193: 553 unit uPSI_IdWhoisServer; //Indy
21194: 554 unit uPSI_IdGopher; //Indy
21195: 555 unit uPSI_IdDateTimeStamp; //Indy
21196: 556 unit uPSI_IdDayTimeServer; //Indy
21197: 557 unit uPSI_IdDayTimeUDP; //Indy
21198: 558 unit uPSI_IdDayTimeUDPServer; //Indy
21199: 559 unit uPSI_IdDICTServer; //Indy
21200: 560 unit uPSI_IdDiscardServer; //Indy
21201: 561 unit uPSI_IdDiscardUDPServer; //Indy
21202: 562 unit uPSI_IdMappedFTP; //Indy
21203: 563 unit uPSI_IdMappedPortTCP; //Indy
21204: 564 unit uPSI_IdGopherServer; //Indy
21205: 565 unit uPSI_IdQotdServer; //Indy
21206: 566 unit uPSI_JvRgbToHtml; //JCL
21207: 567 unit uPSI_JvRemLog; //JCL
21208: 568 unit uPSI_JvSysComp; //JCL
21209: 569 unit uPSI_JvTMTL; //JCL
21210: 570 unit uPSI_JvWinampAPI; //JCL
21211: 571 unit uPSI_MSysUtils; //mX4
21212: 572 unit uPSI_ESBMaths; //ESB
21213: 573 unit uPSI_ESBMaths2; //ESB
21214: 574 unit uPSI_uLkJSON; //Lk
21215: 575 unit uPSI_ZURL; //Zeos
21216: 576 unit uPSI_ZSysUtils; //Zeos
21217: 577 unit unaUtils internals //UNA
21218: 578 unit uPSI_ZMatchPattern; //Zeos
21219: 579 unit uPSI_ZClasses; //Zeos
21220: 580 unit uPSI_ZCollections; //Zeos
21221: 581 unit uPSI_ZEncoding; //Zeos
21222: 582 unit uPSI_IdRawBase; //Indy
21223: 583 unit uPSI_IdNTLM; //Indy
21224: 584 unit uPSI_IdNNTP; //Indy
21225: 585 unit uPSI_usniffer; //PortScanForm //mX4
21226: 586 unit uPSI_IdCoderMIME; //Indy
21227: 587 unit uPSI_IdCoderUUE; //Indy
21228: 588 unit uPSI_IdCoderXXE; //Indy
21229: 589 unit uPSI_IdCoder3to4; //Indy
21230: 590 unit uPSI_IdCookie; //Indy
21231: 591 unit uPSI_IdCookieManager; //Indy
21232: 592 unit uPSI_WDOSocketUtils; //WDOS
21233: 593 unit uPSI_WDOSPlcUtils; //WDOS
21234: 594 unit uPSI_WDOSPorts; //WDOS
21235: 595 unit uPSI_WDOSResolvers; //WDOS
21236: 596 unit uPSI_WDOSTimers; //WDOS
21237: 597 unit uPSI_WDOSPlcs; //WDOS
21238: 598 unit uPSI_WDOSPneumatics; //WDOS
21239: 599 unit uPSI_IdFingerServer; //Indy
21240: 600 unit uPSI_IdDDNSResolver; //Indy

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21241: 601 unit uPSI_IdHTTPWebBrokerBridge;           //Indy
21242: 602 unit uPSI_IdIntercept;                    //Indy
21243: 603 unit uPSI_IdIPMCastBase;                 //Indy
21244: 604 unit uPSI_IdLogBase;                     //Indy
21245: 605 unit uPSI_IdIOHandlerStream;              //Indy
21246: 606 unit uPSI_IdMappedPortUDP;                //Indy
21247: 607 unit uPSI_IdQOTDUDPServer;               //Indy
21248: 608 unit uPSI_IdQOTDUDP;                     //Indy
21249: 609 unit uPSI_IdSysLog;                      //Indy
21250: 610 unit uPSI_IdSysLogServer;                 //Indy
21251: 611 unit uPSI_IdSysLogMessage;                //Indy
21252: 612 unit uPSI_IdTimeServer;                  //Indy
21253: 613 unit uPSI_IdTimeUDP;                     //Indy
21254: 614 unit uPSI_IdTimeUDPServer;               //Indy
21255: 615 unit uPSI_IdUserAccounts;                //Indy
21256: 616 unit uPSI_TextUtils;                     //mX4
21257: 617 unit uPSI_MandelbrotEngine;              //mX4
21258: 618 unit uPSI_delphi_arduino_Unit1;          //mX4
21259: 619 unit uPSI_DTDSchema2;                   //mX4
21260: 620 unit uPSI_fplotMain;                    //DMath
21261: 621 unit uPSI_FindFileIter;                 //mX4
21262: 622 unit uPSI_PppState;  (JclStrHashMap)    //PPP
21263: 623 unit uPSI_PppParser;                   //PPP
21264: 624 unit uPSI_PppLexer;                   //PPP
21265: 625 unit uPSI_PCharUtils;                 //PPP
21266: 626 unit uPSI_uJSON;                      //WU
21267: 627 unit uPSI_JclStrHashMap;                //JCL
21268: 628 unit uPSI_JclHookExcept;               //JCL
21269: 629 unit uPSI_EncdDecd;                   //VCL
21270: 630 unit uPSI_SockAppReg;                 //VCL
21271: 631 unit uPSI_PJFileHandle;               //PJ
21272: 632 unit uPSI_PJEnvVars;                  //PJ
21273: 633 unit uPSI_PJPipe;                     //PJ
21274: 634 unit uPSI_PJPipeFilters;              //PJ
21275: 635 unit uPSI_PJConsoleApp;               //PJ
21276: 636 unit uPSI_UConsoleAppEx;              //PJ
21277: 637 unit uPSI_DbxBSocketChannelNative;    //VCL
21278: 638 unit uPSI_DbxDDataGenerator;          //VCL
21279: 639 unit uPSI_DBXClient;                  //VCL
21280: 640 unit uPSI_IdLogEvent;                 //Indy
21281: 641 unit uPSI_Reversi;                    //mX4
21282: 642 unit uPSI_Geometry;                   //mX4
21283: 643 unit uPSI_IdSMTPServer;               //Indy
21284: 644 unit uPSI_Textures;                   //mX4
21285: 645 unit uPSI_IBX;                       //VCL
21286: 646 unit uPSI_IWDBCommon;                 //VCL
21287: 647 unit uPSI_SortGrid;                  //mX4
21288: 648 unit uPSI_IB;                        //VCL
21289: 649 unit uPSI_IBScript;                  //VCL
21290: 650 unit uPSI_JvCSVBaseControls;         //JCL
21291: 651 unit uPSI_Jvg3DCColors;              //JCL
21292: 652 unit uPSI_JvHLEditor; //beat        //JCL
21293: 653 unit uPSI_JvShellHook;                //JCL
21294: 654 unit uPSI_DBCommon2;                  //VCL
21295: 655 unit uPSI_JvSHFileOperation;         //JCL
21296: 656 unit uPSI_uFileExport;                //mX4
21297: 657 unit uPSI_JvDialogs;                 //JCL
21298: 658 unit uPSI_JvDBTreeview;               //JCL
21299: 659 unit uPSI_JvDBUltimGrid;              //JCL
21300: 660 unit uPSI_JvDBQueryParamsForm;        //JCL
21301: 661 unit uPSI_JvExControls;              //JCL
21302: 662 unit uPSI_JvBDEMemTable;              //JCL
21303: 663 unit uPSI_JvCommStatus;               //JCL
21304: 664 unit uPSI_JvMailSlots2;               //JCL
21305: 665 unit uPSI_JvgWinMask;                //JCL
21306: 666 unit uPSI_StEclipse;                 //SysTools
21307: 667 unit uPSI_StMime;                   //SysTools
21308: 668 unit uPSI_StList;                   //SysTools
21309: 669 unit uPSI_StMerge;                  //SysTools
21310: 670 unit uPSI_StStrs;                   //SysTools
21311: 671 unit uPSI_StTree;                   //SysTools
21312: 672 unit uPSI_StVArr;                   //SysTools
21313: 673 unit uPSI_StRegIni;                 //SysTools
21314: 674 unit uPSI_urkf;                    //DMath
21315: 675 unit uPSI_usvd;                   //DMath
21316: 676 unit uPSI_DepWalkUtils;             //JCL
21317: 677 unit uPSI_OptionsFrm;               //JCL
21318: 678 unit yuvconverts;                  //mX4
21319: 679 uPSI_JvPropAutoSave;                //JCL
21320: 680 uPSI_AclAPI;                      //alcinoe
21321: 681 uPSI_AviCap;                      //alcinoe
21322: 682 uPSI_ALAVLBinaryTree;              //alcinoe
21323: 683 uPSI_ALFcmMisc;                   //alcinoe
21324: 684 uPSI_ALStringList;                //alcinoe
21325: 685 uPSI_ALQuickSortList;              //alcinoe
21326: 686 uPSI_ALStaticText;                //alcinoe
21327: 687 uPSI_ALJSONDoc;                   //alcinoe
21328: 688 uPSI_ALGSMComm;                   //alcinoe
21329: 689 uPSI_ALWindows;                  //alcinoe

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21330: 690 uPSI_ALMultiPartFormDataParser; //alcinoe
21331: 691 uPSI_ALHttpCommon; //alcinoe
21332: 692 uPSI_ALWebSpider; //alcinoe
21333: 693 uPSI_ALHttpClient; //alcinoe
21334: 694 uPSI_ALFcncHTML; //alcinoe
21335: 695 uPSI_ALFTPClient; //alcinoe
21336: 696 uPSI_ALInternetMessageCommon; //alcinoe
21337: 697 uPSI_ALWininetHttpClient; //alcinoe
21338: 698 uPSI_ALWinInetFTPCClient; //alcinoe
21339: 699 uPSI_ALWinHttpWrapper; //alcinoe
21340: 700 uPSI_ALWinHttpClient; //alcinoe
21341: 701 uPSI_ALFcncWinSock; //alcinoe
21342: 702 uPSI_ALFcncSQL; //alcinoe
21343: 703 uPSI_ALFcncCGI; //alcinoe
21344: 704 uPSI_ALFcncExecute; //alcinoe
21345: 705 uPSI_ALFcncFile; //alcinoe
21346: 706 uPSI_ALFcncMime; //alcinoe
21347: 707 uPSI_ALPhpRunner; //alcinoe
21348: 708 uPSI_ALGraphic; //alcinoe
21349: 709 uPSI_ALIniFiles; //alcinoe
21350: 710 uPSI_ALMemCachedClient; //alcinoe
21351: 711 unit uPSI_MyGrids; //mX4
21352: 712 uPSI_ALMultiPartMixedParser //alcinoe
21353: 713 uPSI_ALSMTPClient //alcinoe
21354: 714 uPSI_ALNNTPClient; //alcinoe
21355: 715 uPSI_ALHintBalloon; //alcinoe
21356: 716 unit uPSI_ALXmlDoc; //alcinoe
21357: 717 unit uPSI_IPCThrd; //VCL
21358: 718 unit uPSI_MonForm; //VCL
21359: 719 unit uPSI_TeCanvas; //Orpheus
21360: 720 unit uPSI_Ovcmisc; //Orpheus
21361: 721 unit uPSI_ovcfiler; //Orpheus
21362: 722 unit uPSI_ovcstate; //Orpheus
21363: 723 unit uPSI_ovccoco; //Orpheus
21364: 724 unit uPSI_ovcrvexp; //Orpheus
21365: 725 unit uPSI_OvcFormatSettings; //Orpheus
21366: 726 unit uPSI_OvcUtils; //Orpheus
21367: 727 unit uPSI_ovcstore; //Orpheus
21368: 728 unit uPSI_ovcstr; //Orpheus
21369: 729 unit uPSI_ovcmru; //Orpheus
21370: 730 unit uPSI_ovccmd; //Orpheus
21371: 731 unit uPSI_ovctimer; //Orpheus
21372: 732 unit uPSI_ovcintl; //Orpheus
21373: 733 uPSI_AfCircularBuffer; //AsyncFree
21374: 734 uPSI_AfUtils; //AsyncFree
21375: 735 uPSI_AfSafeSync; //AsyncFree
21376: 736 uPSI_AfComPortCore; //AsyncFree
21377: 737 uPSI_AfComPort; //AsyncFree
21378: 738 uPSI_AfPortControls; //AsyncFree
21379: 739 uPSI_AfDataDispatcher; //AsyncFree
21380: 740 uPSI_AfViewers; //AsyncFree
21381: 741 uPSI_AfDataTerminal; //AsyncFree
21382: 742 uPSI_SimplePortMain; //AsyncFree
21383: 743 unit uPSI_ovcclock; //Orpheus
21384: 744 unit uPSI_o32intlst; //Orpheus
21385: 745 unit uPSI_o32ledlabel; //Orpheus
21386: 746 unit uPSI_AlMySqlClient; //alcinoe
21387: 747 unit uPSI_ALFBXClient; //alcinoe
21388: 748 unit uPSI_ALFcncSQL; //alcinoe
21389: 749 unit uPSI_AsyncTimer; //mX4
21390: 750 unit uPSI_ApplicationFileIO; //mX4
21391: 751 unit uPSI_PsAPI; //VCLé
21392: 752 uPSI_ovcuser; //Orpheus
21393: 753 uPSI_ovcurl; //Orpheus
21394: 754 uPSI_ovcvlb; //Orpheus
21395: 755 uPSI_ovccolor; //Orpheus
21396: 756 uPSI_ALFBXLib; //alcinoe
21397: 757 uPSI_ovcmeter; //Orpheus
21398: 758 uPSI_ovcpeakm; //Orpheus
21399: 759 uPSI_O32BGSty; //Orpheus
21400: 760 uPSI_ovcBidi; //Orpheus
21401: 761 uPSI_ovctcarry; //Orpheus
21402: 762 uPSI_DXPUtils; //mX4
21403: 763 uPSI_ALMultiPartBaseParser; //alcinoe
21404: 764 uPSI_ALMultiPartAlternativeParser; //alcinoe
21405: 765 uPSI_ALPOP3Client; //alcinoe
21406: 766 uPSI_SmallUtils; //mX4
21407: 767 uPSI_MakeApp; //mX4
21408: 768 uPSI_O32MouseMon; //Orpheus
21409: 769 uPSI_OvcCache; //Orpheus
21410: 770 uPSI_ovccalc; //Orpheus
21411: 771 uPSI_Joystick; //OpenGL
21412: 772 uPSI_ScreenSaver; //OpenGL
21413: 773 uPSI_XCollection; //OpenGL
21414: 774 uPSI_Polynomials; //OpenGL
21415: 775 uPSI_PersistentClasses, //9.86 //OpenGL
21416: 776 uPSI_VectorLists; //OpenGL
21417: 777 uPSI_XOpenGL; //OpenGL
21418: 778 uPSI_MeshUtils; //OpenGL

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21419: 779 unit uPSI_JclSysUtils; //JCL
21420: 780 unit uPSI_JclBorlandTools; //JCL
21421: 781 unit JclFileUtils_max; //JCL
21422: 782 uPSI_AfDataControls, //AsyncFree
21423: 783 uPSI_GLSilhouette; //OpenGL
21424: 784 uPSI_JclSysUtils_class; //JCL
21425: 785 uPSI_JclFileUtils_class; //JCL
21426: 786 uPSI_FileUtil; //JCL
21427: 787 uPSI_changefind; //mX4
21428: 788 uPSI_CmdIntf; //mX4
21429: 789 uPSI_fservice; //mX4
21430: 790 uPSI_Keyboard; //OpenGL
21431: 791 uPSI_VRMLParser, //OpenGL
21432: 792 uPSI_GLFileVRML, //OpenGL
21433: 793 uPSI_Octree; //OpenGL
21434: 794 uPSI_GLPolyhedron, //OpenGL
21435: 795 uPSI_GLCrossPlatform; //OpenGL
21436: 796 uPSI_GLParticles; //OpenGL
21437: 797 uPSI_GLNavigator; //OpenGL
21438: 798 uPSI_GLStarRecord; //OpenGL
21439: 799 uPSI_GLTextureCombiners; //OpenGL
21440: 800 uPSI_GLCanvas; //OpenGL
21441: 801 uPSI_GeometryBB; //OpenGL
21442: 802 uPSI_GeometryCoordinates; //OpenGL
21443: 803 uPSI_VectorGeometry; //OpenGL
21444: 804 uPSI_BumpMapping; //OpenGL
21445: 805 uPSI_TGA; //OpenGL
21446: 806 uPSI_GLVectorFileObjects; //OpenGL
21447: 807 uPSI_IMM; //VCL
21448: 808 uPSI_CategoryButtons; //VCL
21449: 809 uPSI_ButtonGroup; //VCL
21450: 810 uPSI_DbExcept; //VCL
21451: 811 uPSI_AxCtrls; //VCL
21452: 812 uPSI_GL_actorUnit1; //OpenGL
21453: 813 uPSI_StdVCL; //VCL
21454: 814 unit CurvesAndSurfaces; //OpenGL
21455: 815 uPSI_DataAwareMain; //AsyncFree
21456: 816 uPSI_TabNotBk; //VCL
21457: 817 uPSI_udwsfiler; //mX4
21458: 818 uPSI_synaip; //Synapse!
21459: 819 uPSI_synacode; //Synapse
21460: 820 uPSI_synachar; //Synapse
21461: 821 uPSI_synamisc; //Synapse
21462: 822 uPSI_synaser; //Synapse
21463: 823 uPSI_synaicnv; //Synapse
21464: 824 uPSI_tlnitsend; //Synapse
21465: 825 uPSI_pingsend; //Synapse
21466: 826 uPSI_blksock; //Synapse
21467: 827 uPSI_asnlutil; //Synapse
21468: 828 uPSI_dnssend; //Synapse
21469: 829 uPSI_clamsend; //Synapse
21470: 830 uPSI_ldapsend; //Synapse
21471: 831 uPSI_mimemess; //Synapse
21472: 832 uPSI_slogsend; //Synapse
21473: 833 uPSI_mimepart; //Synapse
21474: 834 uPSI_mimeinln; //Synapse
21475: 835 uPSI_ftpsend; //Synapse
21476: 836 uPSI_ftptsend; //Synapse
21477: 837 uPSI_httpsend; //Synapse
21478: 838 uPSI_ntpsend; //Synapse
21479: 839 uPSI_smtpsend; //Synapse
21480: 840 uPSI_snmpsend; //Synapse
21481: 841 uPSI_imapsend; //Synapse
21482: 842 uPSI_pop3send; //Synapse
21483: 843 uPSI_nntpsend; //Synapse
21484: 844 uPSI_ssl_cryptlib; //Synapse
21485: 845 uPSI_ssl_openssl; //Synapse
21486: 846 uPSI_synhttp_daemon; //Synapse
21487: 847 uPSI_NetWork; //mX4
21488: 848 uPSI_PingThread; //Synapse
21489: 849 uPSI_JvThreadTimer; //JCL
21490: 850 unit uPSI_wwSystem; //InfoPower
21491: 851 unit uPSI_IdComponent; //Indy
21492: 852 unit uPSI_IdIOHandlerThrottle; //Indy
21493: 853 unit uPSI_Themes; //VCL
21494: 854 unit uPSI_StdStyleActnCtrls; //VCL
21495: 855 unit uPSI_UDDIHelper; //VCL
21496: 856 unit uPSI_IdIMAP4Server; //Indy
21497: 857 uPSI_VariantSymbolTable, //VCL //3.9.9.92
21498: 858 uPSI_udf_glob; //mX4
21499: 859 uPSI_TabGrid; //VCL
21500: 860 uPSI_JsDBTreeView, //mX4
21501: 861 uPSI_JsSendMail, //mX4
21502: 862 uPSI_dbTvRecordList, //mX4
21503: 863 uPSI_TreeWEx, //mX4
21504: 864 uPSI_ECDataLink, //mX4
21505: 865 uPSI_dbTree, //mX4
21506: 866 uPSI_dbTreeCBox, //mX4
21507: 867 unit uPSI_Debug; //TfrmDebug //mX4

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21508: 868 uPSI_TimeFncs; //mX4
21509: 869 uPSI_FileIntf; //VCL
21510: 870 uPSI_SockTransport; //RTL
21511: 871 unit uPSI_WinInet; //RTL
21512: 872 unit uPSI_WWSTR; //mX4
21513: 873 uPSI_DBLookup; //VCL
21514: 874 uPSI_Hotspot; //mX4
21515: 875 uPSI_HList; //History List //mX4
21516: 876 unit uPSI_DrTable; //VCL
21517: 877 uPSI_TConnect; //VCL
21518: 978 uPSI_DataBkr; //VCL
21519: 979 uPSI_HTTPIntr; //VCL
21520: 980 unit uPSI_Mathbox; //mX4
21521: 881 uPSI_cyIndy; //cY
21522: 882 uPSI_cySysUtils; //cY
21523: 883 uPSI_cyWinUtils; //cY
21524: 884 uPSI_cyStrUtils; //cY
21525: 885 uPSI_cyObjUtils; //cY
21526: 886 uPSI_cyDateUtils; //cY
21527: 887 uPSI_cyBDE; //cY
21528: 888 uPSI_cyClasses; //cY
21529: 889 uPSI_cyGraphics; //3.9.9.94_2 //cY
21530: 890 unit uPSI_cyTypes; //cY
21531: 891 uPSI_JvDateTimePicker; //JCL
21532: 892 uPSI_JvCreateProcess; //JCL
21533: 893 uPSI_JvEasterEgg; //JCL
21534: 894 uPSI_WinSvc; //3.9.9.94_3 //VCL
21535: 895 uPSI_SvcMgr; //VCL
21536: 896 unit uPSI_JvPickDate; //JCL
21537: 897 unit uPSI_JvNotify; //JCL
21538: 898 uPSI_JvStrHlder; //JCL
21539: 899 unit uPSI_JclNTFS2; //JCL
21540: 900 uPSI_Jcl8087 //math coprocessor //JCL
21541: 901 uPSI_JvAddPrinter; //JCL
21542: 902 uPSI_JvCabFile; //JCL
21543: 903 uPSI_JvDataEmbedded; //JCL
21544: 904 unit uPSI_U_HexView; //mX4
21545: 905 uPSI_UWavein4; //mX4
21546: 906 uPSI_AMixer; //mX4
21547: 907 uPSI_JvaScrollText; //mX4
21548: 908 uPSI_JvArrow; //mX4
21549: 909 unit uPSI.UrlMon; //mX4
21550: 910 U_Oscilloscope4 in 'U_Oscilloscope4.pas' //mX4
21551: 911 unit uPSI_U_Oscilloscope4; //TOscfrmMain; //DFF
21552: 912 unit uPSI_DFFUtils; //DFF
21553: 913 unit uPSI_MathsLib; //DFF
21554: 914 uPSI_UIntlist; //DFF
21555: 915 uPSI_UGetParens; //DFF
21556: 916 unit uPSI_UGeometry; //DFF
21557: 917 unit uPSI_UAstronomy; //DFF
21558: 918 unit uPSI_UCardComponentV2; //DFF
21559: 919 unit uPSI_UTGraphSearch; //DFF
21560: 920 unit uPSI_UParser10; //DFF
21561: 921 unit uPSI_cyIEUtils; //cY
21562: 922 unit uPSI_UcomboV2; //DFF
21563: 923 uPSI_cyBaseComm; //cY
21564: 924 uPSI_cyAppInstances; //cY
21565: 925 uPSI_cyAttract; //cY
21566: 926 uPSI_cyDERUtils; //cY
21567: 927 unit uPSI_cyDocER; //cY
21568: 928 unit uPSI_ODBC; //mX
21569: 929 unit uPSI_AssocExec; //mX
21570: 930 uPSI_cyBaseCommRoomConnector; //cY
21571: 931 uPSI_cyCommRoomConnector; //cY
21572: 932 uPSI_cyCommunicate; //cY
21573: 933 uPSI_cyImage; //cY
21574: 934 uPSI_cyBaseContainer; //cY
21575: 935 uPSI_cyModalContainer; //cY
21576: 936 uPSI_cyFlyingContainer; //cY
21577: 937 uPSI_RegStr; //VCL
21578: 938 uPSI_HtmlHelpViewer; //VCL
21579: 939 unit uPSI_cyIniform; //cY
21580: 940 unit uPSI_cyVirtualGrid; //cY
21581: 941 uPSI_Profiler; //DA
21582: 942 uPSI_BackgroundWorker; //DA
21583: 943 uPSI_WavePlay; //DA
21584: 944 uPSI_WaveTimer; //DA
21585: 945 uPSI_WaveUtils; //DA
21586: 946 uPSI_NamedPipes; //TB
21587: 947 uPSI_NamedPipeServer; //TB
21588: 948 unit uPSI_process; //TB
21589: 949 unit uPSI_DPUtis; //TB
21590: 950 unit uPSI_CommonTools; //TB
21591: 951 uPSI_DataSendToWeb; //TB
21592: 952 uPSI_StarCalc; //TB
21593: 953 uPSI_D2_XPVistaHelperU //TB
21594: 954 unit uPSI_NetTools; //TB
21595: 955 unit uPSI_Pipes; //TB
21596: 956 uPSI_ProcessUnit; //mX

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21597: 957 uPSI_adGSM,                                //mX
21598: 958 unit uPSI_BetterADODataset;              //mX
21599: 959 unit uPSI_AdSelCom; //FTT               //mX
21600: 960 unit unit uPSI_dwsXplatform;             //DWS
21601: 961 uPSI_AdSocket;                          //mX Turbo Power
21602: 962 uPSI_AdPacket;                         //mX
21603: 963 uPSI_AdPort;                           //mX
21604: 964 uPSI_PathFunc;                        //Inno
21605: 965 uPSI_CmnFunc;                         //Inno
21606: 966 uPSI_CmnFunc2; //Inno Setup            //Inno
21607: 967 unit uPSI_BitmapImage;                 //mX4
21608: 968 unit uPSI_ImageGrabber;                //mX4
21609: 969 uPSI_SecurityFunc;                    //Inno
21610: 970 uPSI_RedirFunc;                       //Inno
21611: 971 uPSI_FIFO, (MemoryStream)           //mX4
21612: 972 uPSI_Int64Em;                         //Inno
21613: 973 unit uPSI_InstFunc;                   //Inno
21614: 974 unit uPSI_LibFusion;                  //Inno
21615: 975 uPSI_SimpleExpression;                //Inno
21616: 976 uPSI_unitResourceDetails;             //XN
21617: 977 uPSI_unitResFile;                     //XN

21618:
21619:
21620:
21621: //////////////////////////////////////////////////////////////////
21622: //Form Template Library FTL
21623: //////////////////////////////////////////////////////////////////
21624:
21625: 32 FTL For Form Building out of the Script, eg. 399_form_templates.txt
21626:
21627: 045 unit uPSI_VListView;                   TFormListView;
21628: 263 unit uPSI_JvProfiler32;                TProfReport
21629: 270 unit uPSI_ImgList;                    TCustomImageList
21630: 278 unit uPSI_JvImageWindow;              TJvImageWindow
21631: 317 unit uPSI_JvParserForm;                TJvHTMLParserForm
21632: 497 unit uPSI_DebugBox;                   TDebugBox
21633: 513 unit uPSI_ImageWin;                   TImageForm, TImageForm2
21634: 514 unit uPSI_CustomDrawTreeView;          TCustomDrawForm
21635: 515 unit uPSI_GraphWin;                   TGraphWinForm
21636: 516 unit uPSI_actionMain;                 TActionForm
21637: 518 unit uPSI_CtlPanel;                   TAppletApplication
21638: 529 unit uPSI_MDIEdit;                   TEditForm
21639: 535 unit uPSI_CoolMain; {browser}        TWebMainForm
21640: 538 unit uPSI_frmExportMain;              TSynexportForm
21641: 585 unit uPSI_usniffer; //PortScanForm  TSniffForm
21642: 600 unit uPSI_ThreadForm;                 TThreadSortForm;
21643: 618 unit uPSI_delphi_arduino_Unit1;       TLEDForm
21644: 620 unit uPSI_fpplotMain;                 TfplotForm1
21645: 660 unit uPSI_JvDBQueryParamsForm;        TJvQueryParamsDialog
21646: 677 unit uPSI_OptionsFrm;                 TfrmOptions;
21647: 718 unit uPSI_MonForm;                   TMonitorForm
21648: 742 unit uPSI_SimplePortMain;             TPortForm1
21649: 770 unit uPSI_ovccalc;                   TOvcCalculator //widget
21650: 810 unit uPSI_DbExcept;                  TDbEngineErrorDlg
21651: 812 unit uPSI_GL_actorUnit1;             TglActorForm1 //OpenGL Robot
21652: 846 unit uPSI_synhttp_daemon;            TTCPHttpDaemon, TTCPHttpThrd, TPingThread
21653: 867 unit uPSI_Debug;                     TfrmDebug
21654: 904 unit uPSI_U_HexView;                 THexForm2
21655: 911 unit uPSI_U_Oscilloscope4; (OscfrmMain) TOScfrmMain
21656: 959 unit uPSI_AdSelCom;                  TComSelectForm

21657:
21658:
21659: ex.:with TEditForm.create(self) do begin
21660:   caption:= 'Template Form Tester';
21661:   FormStyle:= fsStayOnTop;
21662:   with editor do begin
21663:     Lines.LoadFromFile(Exepath+'\docs\Readme_rus_mX2.rtf'
21664:     SelStart:= 0;
21665:     Modified:= False;
21666:   end;
21667: end;
21668: with TWebMainForm.create(self) do begin
21669:   URLs.Text:= 'http://www.kleiner.ch';
21670:   URLsClick(self); Show;
21671: end;
21672: with TSynexportForm.create(self) do begin
21673:   Caption:= 'Synexport HTML RTF tester';
21674:   Show;
21675: end;
21676: with TThreadSortForm.create(self) do begin
21677:   showmodal; free;
21678: end;
21679: with TCustomDrawForm.create(self) do begin
21680:   width:=820; height:=820;
21681:   image1.height:= 600; //add properties
21682:   image1.picture.bitmap:= image2.picture.bitmap;
21683: //SelectionBackground1Click(self) CustomDraw1Click(self);
21684:   Background1.click;
21685:   bitmap1.click;

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21686:     Tile1.click;
21687:     Showmodal;
21688:     Free;
21689:   end;
21690:   with TfplotForm1.Create(self) do begin
21691:     BtnPlotClick(self);
21692:     Showmodal; Free;
21693:   end;
21694:   with TOvcCalculator.create(self) do begin
21695:     parent:= aForm;
21696:     //free;
21697:     setbounds(550,510,200,150);
21698:     displaystr:= 'maXcalc';
21699:   end;
21700:   with THexForm2.Create(self) do begin
21701:     ShowModal;
21702:     Free;
21703:   end;
21704:
21705: function CheckBox: string;
21706: var idHTTP: TIDHTTP;
21707: begin
21708:   result:= 'version not found';
21709:   if IsInternet then begin
21710:     idHTTP:= TIdHTTP.Create(NIL);
21711:     try
21712:       result:= idHTTP.Get(MXVERSIONFILE2);
21713:       result:= result[1]+result[2]+result[3]+result[4]+result[5];
21714:       if result = MBVER2 then begin
21715:         //output.Font.Style:= [fsbold];
21716:         //Speak(' A new Version '+vstr+' of max box is available! ');
21717:         result:= ('!!!! OK. You have latest Version: '+result+ ' available at '+MXSITE);
21718:       end;
21719:     //idhttp.get2('http://www.softwareschule.ch/maxbox.htm')
21720:     finally
21721:       idHTTP.Free
21722:     end;
21723:   end;
21724: end;
21725:
21726:
21727: /////////////////////////////////
21728: All maxBox Tutorials Table of Content 2014
21729: ///////////////////////////////
21730: Tutorial 00 Function-Coding (Blix the Programmer)
21731: Tutorial 01 Procedural-Coding
21732: Tutorial 02 OO-Programming
21733: Tutorial 03 Modular Coding
21734: Tutorial 04 UML Use Case Coding
21735: Tutorial 05 Internet Coding
21736: Tutorial 06 Network Coding
21737: Tutorial 07 Game Graphics Coding
21738: Tutorial 08 Operating System Coding
21739: Tutorial 09 Database Coding
21740: Tutorial 10 Statistic Coding
21741: Tutorial 11 Forms Coding
21742: Tutorial 12 SQL DB Coding
21743: Tutorial 13 Crypto Coding
21744: Tutorial 14 Parallel Coding
21745: Tutorial 15 Serial RS232 Coding
21746: Tutorial 16 Event Driven Coding
21747: Tutorial 17 Web Server Coding
21748: Tutorial 18 Arduino System Coding
21749: Tutorial 18_3 RGB LED System Coding
21750: Tutorial 19 WinCOM /Arduino Coding
21751: Tutorial 20 Regular Expressions RegEx
21752: Tutorial 21 Android Coding (coming 2013)
21753: Tutorial 22 Services Programming
21754: Tutorial 23 Real Time Systems
21755: Tutorial 24 Clean Code
21756: Tutorial 25 maxBox Configuration I+II
21757: Tutorial 26 Socket Programming with TCP
21758: Tutorial 27 XML & TreeView
21759: Tutorial 28 DLL Coding (available)
21760: Tutorial 29 UML Scripting (2014)
21761: Tutorial 30 Web of Things (2014)
21762: Tutorial 31 Closures (coming 2014)
21763: Tutorial 32 SQL Firebird (coming 2014)
21764: Tutorial 33 Oscilloscope (coming 2015)
21765: Tutorial 34 GPS Navigation (coming 2015)
21766: Tutorial 35 Web Box (available)
21767:
21768: Doc ref Docu for all Type Class and Const in maxbox_types.pdf
21769: using Docu for this file is maxbox_functions_all.pdf
21770: PEP - Pascal Education Program Lib Lab ShellHell
21771:
21772: http://stackoverflow.com/tags/pascalscript/hot
21773: http://www.jrsoftware.org/isihelp/index.php?topic=scriptfunctions
21774: http://sourceforge.net/projects/maxBox #locs:51620

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21775: <http://sourceforge.net/apps/mediawiki/maxBox>  
21776: <http://www.blaisepascal.eu/>  
21777: <https://github.com/maxkleiner/maxBox3.git>  
21778: <http://www.heise.de/download/maxbox-1176464.html>  
21779: <http://www.softpedia.com/get/Programming/Other-Programming-Files/maxbox.shtml>  
21780: <https://www.facebook.com/pages/Programming-maxBox/166844836691703>  
21781: [http://www.softwareschule.ch/arduino\\_training.pdf](http://www.softwareschule.ch/arduino_training.pdf)  
21782: <http://www.delphiarea.com>  
21783:  
21784: All maxBox Examples List  
21785: <https://github.com/maxkleiner/maxBox3/releases>  
21786: \*\*\*\*\*  
21787: 000\_pas\_baseconvert.txt 282\_fadengraphik.txt  
21788: 000\_pas\_baseconvert.txt\_encrypt 283\_SQL\_API\_messagetimeout.txt  
21789: 000\_pas\_baseconvert.txt\_decrypt 284\_SysTools4.txt  
21790: 001\_1\_pas\_functest - Kopie.txt 285\_MineForm\_GR32.TXT  
21791: 001\_1\_pas\_functest.txt 285\_MineForm\_GR32main.TXT  
21792: 001\_1\_pas\_functest2.txt 285\_MineForm\_GR32mainsolution.TXT  
21793: 001\_1\_pas\_functest\_clx2.txt 285\_MineForm\_propas.TXT  
21794: 001\_1\_pas\_functest\_clx2\_2.txt 285\_MineForm\_propas2.TXT  
21795: 001\_1\_pas\_functest\_openarray.txt 285\_minesweeper2.TXT  
21796: 001\_pas\_lottogen.txt 285\_Patterns\_process.txt  
21797: 001\_pas\_lottogen\_template.txt 286\_colormixer\_jpeg\_charcounter.txt  
21798: 001\_pas\_lottogen.txtcopy 286\_colormixer\_jpeg\_charcounter2.txt  
21799: 002\_pas\_russianroulette.txt 287\_eventhandling.txt  
21800: 002\_pas\_russianroulette.txtcopy 287\_eventhandling2.txt  
21801: 002\_pas\_russianroulette.txtcopy\_decrypt 287\_eventhandling2\_negpower.txt  
21802: 002\_pas\_russianroulette.txtcopy\_encrypt 288\_bitblt.txt  
21803: 003\_pas\_motion.txt 288\_bitblt\_resize.txt  
21804: 003\_pas\_motion.txtcopy 289\_regression.txt  
21805: 004\_pas\_search.txt 289\_regression2.txt  
21806: 004\_pas\_search\_replace.txt 290\_bestofbox.txt  
21807: 004\_search\_replace\_allfunctionlist.txt 290\_bestofbox2.txt  
21808: 005\_pas\_oodesign.txt 290\_bestofbox3.txt  
21809: 005\_pas\_shelllink.txt 291\_3sort\_visual\_thread.txt  
21810: 006\_pas\_oobatch.txt 292\_refactoring2.txt  
21811: 007\_pas\_streamcopy.txt 293\_bold\_utils.txt  
21812: 008\_EINMALEINS\_FUNC.TXT 293\_ib\_utils.txt  
21813: 008\_explanation.txt 293\_ib\_utils\_timetest.txt  
21814: 008\_pas\_verwechselt.txt 294\_maxcalc\_demo.txt  
21815: 008\_pas\_verwechselt\_ibz\_bern\_func.txt 294\_maxcalc\_demo2.txt  
21816: 008\_stack\_ibz.TXT 295\_easter\_calendar.txt  
21817: 009\_pas\_umrunner.txt 295\_easter\_calendar2.txt  
21818: 009\_pas\_umrunner\_all.txt 295\_easter\_combobox.txt  
21819: 009\_pas\_umrunner\_componenttest.txt 297\_atomimage.txt  
21820: 009\_pas\_umrunner\_solution.txt 297\_atomimage2.txt  
21821: 009\_pas\_umrunner\_solution\_2step.txt 297\_atomimage3.txt  
21822: 010\_pas\_oodesign\_solution.txt 297\_atomimage4.txt  
21823: 011\_pas\_puzzlepas\_defect.txt 297\_maxonmotor.TXT  
21824: 012\_pas\_umrunner\_solution.txt 297\_maxon\_atomimage9.txt  
21825: 012\_pas\_umrunner\_solution2.txt 298\_bitblt\_animation.txt  
21826: 013\_pas\_linenumber.txt 298\_bitblt\_animation2.txt  
21827: 014\_pas\_primetest.txt 298\_bitblt\_animation3.txt  
21828: 014\_pas\_primetest\_first.txt 298\_bitblt\_animation4.txt  
21829: 014\_pas\_primetest\_sync.txt 298\_bitblt\_animation4\_screensaver.txt  
21830: 015\_pas\_designbycontract.txt 298\_bitblt\_animation5\_screensaver.txt  
21831: 015\_pas\_designbycontract\_solution.txt 299\_animation.txt  
21832: 016\_pas\_searchrec.txt 299\_animationmotor\_arduino.txt  
21833: 017\_chartgen.txt 299\_animation\_formprototype.txt  
21834: 018\_data\_simulator.txt 299\_realtimeclock\_arduino.txt  
21835: 019\_dez\_to\_bin.txt 299\_realtimeclock\_arduino2.txt  
21836: 019\_dez\_to\_bin\_grenzwert\_ibz.txt 300\_treeview.txt  
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21839: 021\_pas\_symkey\_solution.txt 300\_treeview\_test3.txt  
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21841: 023\_pas\_find\_searchrec.txt 301\_led\_arduino3\_simple.txt  
21842: 023\_pas\_pathfind.txt 301\_log\_arduino.txt  
21843: 024\_pas\_TFileStream\_records.txt 301\_log\_arduino2.txt  
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21847: 027\_pas\_shellexecute\_solution.txt 302\_LED\_DataLogger.txt  
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21850: 029\_pas\_assignfile\_dragndropexe.txt 303\_webserver2.txt  
21851: 030\_palindrome\_2.txt 303\_webserver\_alldocs2.txt  
21852: 030\_palindrome\_tester.txt 303\_webserver\_alldocs2\_tester.txt  
21853: 030\_pas\_recursion.txt 303\_webserver\_minimal.txt  
21854: 030\_pas\_recursion2.txt 303\_webserver\_simple.txt  
21855: 031\_pas\_hashcode.txt 304\_st\_system.txt  
21856: 032\_pas\_crc\_const.txt 305\_indy\_elizahttpserver.TXT  
21857: 033\_pas\_cipher.txt 305\_indy\_elizahttpserver2.TXT  
21858: 033\_pas\_cipher\_def.txt 305\_indy\_elizahttpserver3.TXT  
21859: 033\_pas\_cipher\_file\_2\_solution.txt 305\_indy\_elizahttpserver4file.TXT  
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21861: 035\_pas\_crcscript.txt  
21862: 035\_pas\_CRCscript\_modbus.txt  
21863: 036\_pas\_includetest.txt 305\_webserver\_arduino.txt  
21864: 036\_pas\_includetest.txt 305\_webserver\_arduino2.txt  
21865: 036\_pas\_includetest.txt 305\_webserver\_arduino3.txt

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21864: 036_pas_includetest_basta.txt
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21869: 040_paspointer_old.txt
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21872: 042_pas_kgv_ggt.txt
21873: 043_pas_proceduretype.txt
21874: 044_pas_14queens_solwith14.txt
21875: 044_pas_8queens.txt
21876: 044_pas_8queens_sol2.txt
21877: 044_pas_8queens_solutions.txt
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21879: 044_queens_performer2.txt
21880: 044_queens_performer2tester.txt
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21882: 046_pas_records.txt
21883: 047_pas_modulal0.txt
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21885: 049_pas_ifdemo.txt
21886: 049_pas_ifdemo_BROKER.txt
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21888: 050_pas_primetester_thieves.txt
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21890: 050_program_starter_performance.txt
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21893: 052_pas_text_as_stream_include.txt
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21895: 054_pas_speakpassword.txt
21896: 054_pas_speakpassword2.txt
21897: 054_pas_speakpassword_searchtest.txt
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21903: 058_pas_filefinder_screview.txt
21904: 058_pas_filefinder_screview2.txt
21905: 058_pas_filefinder_screview3.txt
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21913: 059_timerobject_starter4_ibz.txt
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21916: 060_pas_datefind_exceptions_CHECKTEST.txt
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21918: 060_pas_datefind_plus.txt
21919: 060_pas_datefind_plus_mydate.txt
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21923: 063_pas_calculateform.txt
21924: 063_pas_calculateform_2list.txt
21925: 064_pas_timetest.txt
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21928: 066_pas_eliza_include_sol.txt
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21931: 069_LED_Matrix_R1_3_6_NV_PSchaer.TXT
21932: 069_my_LEDBOX.TXT
21933: 069_pas_ledmatrix.txt
21934: 069_pas_LEDMATRIX_Alphabet.txt
21935: 069_pas_LEDMATRIX_Alphabet_run.txt
21936: 069_pas_LEDMATRIX_Alphabet_tester.txt
21937: 069_PAS_LEDMATRIX_COLOR.TXT
21938: 069_pas_ledmatrix_fixedit.txt
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21940: 069_pas_LEDMATRIX_soundbox2.txt
21941: 069_Richter_MATRIX.TXT
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21943: 070_pas_functionplotter2.txt
21944: 070_pas_functionplotter2_mx4.txt
21945: 070_pas_functionplotter2_tester.txt
21946: 070_pas_functionplotter3.txt
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21948: 070_pas_functionplotter_digital.txt
21949: 070_pas_functionplotter_elliptic.txt
21950: 070_pas_function_helmholtz.txt
21951: 070_pas_textcheck_experimental.txt
21952: 071_pas_graphics.txt

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307_all_booleanlogic.txt
308_bitbox3.txt
308_bitbox3_exec.txt
308_boolean_animation.txt
308_boolean_animation2.txt
309_regex_power.txt
309_regex_powertester2.txt
309_regex_powertester3.txt
310_regex_decorator.TXT
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313_dmath_dll.txt
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315_funcplot_dmath.TXT
316_cfileutils_cdatetime_tester.TXT
317_excel_export_tester.TXT
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318_excel_export2.TXT
318_excel_export3.TXT
318_excel_export3_tester.TXT
319_superfunctions_math.TXT
319_superfunctions_mathdefect.TXT
320_superfunctions.TXT
320_superfunctions2.TXT
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321_SQL_Excel2.txt
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321_SQL_SAS_tester4.txt
321_SQL_SAS_updater.txt
322_timezones.TXT
323_datefind_fulltext_search.txt
323_datefind_fulltext_searchtester.txt
324_interfacenavi.TXT
325_ampelsteuerung.txt
325_analogclock.txt
326_world_analogclock.txt
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327_atomimage_clock.txt
328_starfield.txt
329_starfield2.txt
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330_myclock2.txt
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332_jprofiler.txt
332_jprofiler_form.txt
332_jprofiler_form2.txt
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333_querybyexample2.txt
334_jvutils_u.txt
335_atomimage5.txt
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335_atomimage7.txt
336_digiclock.txt
336_digiclock2.txt
336_digiclock2test.txt
336_digiclock3.txt
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337_4games_inone.txt
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338_compress2.txt
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340_logsimulation2.txt
340_soundControltype.txt
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341_blix_clock2.txt
341_blix_clock_tester.txt
342_set Enumerator.txt
343_dice2.txt
344_pe_header.txt
344_pe_header2.txt
345_velocity.txt
346_conversions.txt
347_pictureview.txt
348_duallistview.txt
349_biginteger.txt
350_parserform.txt
351_chartform.txt
351_chartform2.txt
351_chartform3.txt

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21958: 072_pas_fractals_blackhole.txt
21959: 072_pas_fractals_performace.txt
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21961: 072_pas_fractals_performance_sharp.txt
21962: 072_pas_fractals_performance.txt
21963: 072_pas_fractals_performance_mx4.txt
21964: 073_pas_forms.txt
21965: 074_pas_chartgenerator.txt
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21968: 074_pas_charts.txt
21969: 075_bitmap_Artwork2.txt
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21973: 075_pas_bitmappuzzle3.txt
21974: 075_pas_bitmapsolve.txt
21975: 075_pas_bitmap_Artwork.txt
21976: 075_pas_puzzlesolution.txt
21977: 076_pas_3dcube.txt
21978: 076_pas_circle.txt
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21980: 078_pas_pi.txt
21981: 079_pas_3dcube_animation.txt
21982: 079_pas_3dcube_animation4.txt
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21990: 080_pas_hanoi3.txt
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21997: 083_pas_soundbox_tones.txt
21998: 084_pas_waves.txt
21999: 085_mxsinus_logo.txt
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22001: 086_pas_graph_arrow_heart.txt
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22003: 087_pas_bitmap_solution.txt
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22005: 087_pas_bitmap_subimage.txt
22006: 087_pas_bitmap_test.txt
22007: 088_pas_soundbox2_mp3.txt
22008: 088_pas_soundbox_mp3.txt
22009: 088_pas_sphere_2.txt
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22013: 090_pas_sudoku4_2.txt
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22015: 092_pas_statistics4.txt
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22017: 093_variance_debug.txt
22018: 094_pas_daysold.txt
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22041: 210_public_private.txt

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355_life_of_PI.txt
356_3d_printer.txt
357_fplot.TXT
358_makesound.txt
359_charsetrules.TXT
360_allobjects.TXT
360_JvPaintFX.TXT
361_heartbeat_wave.TXT
362_maxonmotor2.TXT
363_compress_services.txt
363_compress_services2.txt
364_pdf_services.txt
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365_memorystream_test.txt
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367_silvi_player_widgets.txt
367_silvi_player_widgets2.txt
367_widgets.txt
368_configuration_demo.txt
369_macro_demo.txt
370_callback2grid.TXT
370_richedit.txt
370_richedit_highlight.txt
370_synedit.txt
370_synedit2.txt
370_synedit2_mxtester.txt
370_synedit2_mxtester2.txt
371_maxbook_v4tester.txt
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372_synedit_export.txt
373_batman.txt
373_fractals_tvout.txt
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374_realtime_random2.txt
374_realtime_randomtest.txt
374_realtime_randomtest2.txt
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376_collections_list.txt
377_simpleXML.txt
377_smartXML.txt
377_smartXMLWorkshop.txt
377_smartXMLWorkshop2.txt
378_queryperformance3.txt
378_REST1.txt
378_REST2.txt
379_timefunc.txt
379_timefuncTesterfilemon.txt
380_coolfunc.txt
380_coolfunc2.txt
380_coolfunc_tester.txt
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382_GRMath.TXT
382_GRMath_PI_Proof.TXT
382_GRMath_Riemann.TXT
383_MDAC_DCOM.txt
384_TeamViewerID.TXT
386_InternetRadio.TXT
387_fulltextfinder.txt
387_fulltextfinder_cleancode.txt
387_fulltextfinder_fast.txt
387_fulltext_getscripttest.txt
388_TCPServerSock.TXT
388_TCPServerSock2.TXT
388_TCPServerSockClient.TXT
389_TAR_Archive.TXT
389_TAR_Archive_test.TXT
389_TAR_Archive_test2.TXT
390_Callback3.TXT
390_Callback3Rec.TXT
390_CallbackClean.TXT
390_StringlistHTML.TXT
391_ToDo_List.TXT
392_BarcodE.TXT
392_BarcodE2.TXT
392_BarcodE23.TXT
392_BarcodE2scholz.TXT
392_BarcodE3scholz.TXT
393_QRCode.TXT
393_QRCode2.TXT
393_QRCode2Direct.TXT
393_QRCode2DirectIndy.TXT

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22124: 255_einstein.txt          445_datagrid_android_arduino.txt
22125: 256_findconsts_of_EXE.txt  446_arduino_timer.txt
22126: 256_findfunctions2_of_EXE.txt 447_patternFrm_mx3.txt
22127: 256_findfunctions2_of_EXEaverp.txt 448_Synapse.txt
22128: 256_findfunctions2_of_EXEspec.txt 448_Synapse2.txt
22129: 256_findfunctions3.txt    449_dweb_start_tester.txt
22130: 256_findfunctions_of_EXE.txt 450_Synapse_HTTPS.txt

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22131: 257_AES_Cipher.txt
22132: 258_AES_cryptobox.txt
22133: 258_AES_cryptobox2.txt
22134: 258_AES_cryptobox2_passdlg.txt
22135: 259_AES_crypt_directory.txt
22136: 260_sendmessage_2.TXT
22137: 260_sendmessage_beta.TXT
22138: 261_probability.txt
22139: 262_mxoutputdemo4.txt
22140: 263_async_sound.txt
22141: 264_vclutils.txt
22142: 264_VCL_utils2.txt
22143: 265_timer_API.txt
22144: 266_serial_interface.txt
22145: 266_serial_interface2.txt
22146: 266_serial_interface3.txt
22147: 267_ackermann_rec.txt
22148: 267_ackermann_variants.txt
22149: 268_DBGrid_tree.txt
22150: 269_record_grid.TXT
22151: 270_Jedi_FunctionPower.txt
22152: 270_Jedi_FunctionPowertester.txt
22153: 271_closures_study.txt
22154: 271_closures_study_workingset2.txt
22155: 272_pas_function_show.txt
22156: 273_pas_function_show2.txt
22157: 274_library_functions.txt
22158: 275_turtle_language.txt
22159: 275_turtle_language_save.txt
22160: 276_save_algo.txt
22161: 276_save_algo2.txt
22162: 277_functionsfor39.txt
22163: 278_DB_Dialogs.TXT
22164: 279_hexer2.TXT
22165: 279_hexer2macro.TXT
22166: 279_hexer2macroback.TXT
22167: 280_UML_process.txt
22168: 280_UML_process_knabe2.txt
22169: 280_UML_process_knabe3.txt
22170: 280_UML_process_TIM_Botzenhardt.txt
22171: 280_UML_TIM_Seitz.txt
22172: 281_picturepuzzle.txt
22173: 281_picturepuzzle2.txt
22174: 281_picturepuzzle3.txt
22175: 281_picturepuzzle4.txt
22176: 479_inputquery.txt
22177: 480_regex_pathfinder2.txt
22178: 482_processPipe.txt
22179: 483_PathFuncTest_mx.txt
22180: 485_InnoFunc.txt
22181:
22182:
22183: Web Script Examples:
22184:
22185: http://www.softwareschule.ch/examples/performer.txt';
22186: http://www.softwareschule.ch/examples/turtle.txt';
22187: http://www.softwareschule.ch/examples/SQLExport.txt';
22188: http://www.softwareschule.ch/examples/Richter.txt';
22189: http://www.softwareschule.ch/examples/checker.txt';
22190: http://www.softwareschule.ch/examples/demascript.txt';
22191: http://www.softwareschule.ch/examples/ibzresult.txt';
22192: http://www.softwareschule.ch/examples/performindex.txt
22193: http://www.softwareschule.ch/examples/processlist.txt
22194:
22195: ----- bigbitbox code_cleared_checked-----

```