Common pascal units documentation

Pasdoc

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Unit collects

1.1 Description

Collection units

This routine contains collection objects, being quite similar to those included in the objects unit. The only difference being that they compiler on all compiler targets.

1.2 Overview

1.3	Classes,	Interfaces	and	Objects
-----	----------	------------	-----	---------

${\bf TExtendedCollection\ Object\ _}$	
Hierarchy	

 ${\it TExtendedCollection} > {\it TObject}$

TExtendedSortedCollection Object _____

Hierarchy

TExtendedSortedCollection > TExtendedCollection(1.3) > TObject

1.4 Author

Unit crc

2.1 Description

CRC generation unit

CRC generation routines, compatible with ISO 3309 and ITU-T-V42.

2.2 Overview

UpdateCrc32

2.3 Functions and Procedures

UpdateCrc32 function _____

Declaration function UpdateCrc32(InitCrc:longword; b: byte):longword;

Description Routine to get the CRC-32 value. Normally to be compatible with the ISO 3309 standard,

the first call to this routine should set InitCRC to \$FFFFFFFF, and the final result of the

CRC-32 should be XOR'ed with \$FFFFFFF.

Parameters InitCRC The value of the previous CRC

b The data byte to get the CRC-32 of

Returns The updated CRC-32 value

2.4 Author

Unit dpautils

3.1 Description

Delphi/Kylix compatbility unit

This unit includes common definitions so that common code can be compiled under the Delphicompilers. It supports Delphi 6 and higher that are targeted for Win32 as well as WDOSX/DOS.

3.2 Author

Unit fpautils

4.1 Description

Free Pascal compatibility unit

This unit includes common definitions so that common code can be compiled under the Free pascal compilers. It supports Freepascal 1.0.6 and higher (all targets).

4.2 Author

Unit ietf

5.1 Description

ietf/web related support unit

This unit contains routines to validate strings, and characters according to different IETF standards (such as URL's, URI's and MIME types).

5.2 Overview

urn_isvalid Verifies the validity of a complete URN string

urn_isvalidnid

urn_split Splits an URN string in its separate components

5.3 Functions and Procedures

${\bf urn_isvalid}$	function
Declaration	<pre>function urn_isvalid(s: shortstring): boolean;</pre>
Description	Verifies the validity of a complete URN string
	This checks the conformance of the URN address. It is based on IETF RFC 2141.
Returns	TRUE if this is a valid URN string
${ m urn_isvalid}$	nid function
Declaration	function urn isvalidnid(nid: string): boolean:

Description This routine checks that the specified NID (namespace) is either registered to IANA, or that

it is an experimental NID, as described in IETF RFC 2611. More assignment information

can be obtained from:

Returns TRUE if this is a registered or experimental NID string

urn_split function _____

Declaration function urn_split(urn:string; var urnidstr,nidstr,nssstr: string):

boolean;

Description Splits an URN string in its separate components

It is based on IETF RFC 2141. nidstr Namespace identifier NID

Parameters urn Complete URN string to separate

urnidstr Signature URN:

nssstr Namespace specific string NSS

Returns TRUE if the operation was successfull, or FALSE if the URN is malformed

5.4 Author

Unit locale

6.1 Description

Localisation unit

This unit is used to convert different locale information. ISO Standards are used where appropriate. Credits where credits are due, information on the ISO and date formats where taken from

6.2 Overview

 ${\tt GetCharEncoding}$

GetISODateString

GetISOTimeString

IsValidISODateString Verifies if the date is in a valid ISO 8601 format

IsValidISODateTimeString Verifies if the date and time is in a valid ISO 8601 format

IsValidISOTimeString Verifies if the time is in a valid ISO 8601 format

UNIXToDateTime

6.3 Functions and Procedures

GetCharEncoding function Declaration function GetCharEncoding(alias: string; var _name: string): integer; Description Using a registered ALIAS name for a specific character encoding, return the common or MIME name associated with this character set, and indicate the type of stream format used. The type of stream format used can be one of the CHAR_ENCODING_XXXX constants.

GetISODateString function _____

Declaration function GetISODateString(Year, Month, Day: Word): shortstring;

Description Returns the preferred date string as recommended by ISO 8601 (Gregorian Calendar). Re-

turns an empty string if there is an error.

Parameters year Year of the date - valid values are from 0000 to 9999

month Month of the date - valid values are from 0 to 12 day Day of the month - valid values are from 1 to 31

GetISOTimeString function _____

Declaration function GetISOTimeString(Hour, Minute, Second: Word; UTC: Boolean):

shortstring;

Description Returns the preferred time string as recommended by ISO 8601 (Gregorian Calendar). .

Returns Empty string if there is an error

IsValidISODateString function __

Declaration function IsValidISODateString(datestr: shortstring): boolean;

Description Verifies if the date is in a valid ISO 8601 format

Parameters datestr Date string in valid ISO 8601 format

Returns TRUE if the date string is valid otherwise false

IsValidISODateTimeString function _

Declaration function IsValidISODateTimeString(str: shortstring): boolean;

Description Verifies if the date and time is in a valid ISO 8601 format

Currently does not support the fractional second parameters, and only the format recommended by W3C when used with the time zone designator.

Parameters str Date-Time string in valid ISO 8601 format

Returns TRUE if the date-time string is valid otherwise false

IsValidISOTimeString function _____

Declaration function IsValidISOTimeString(timestr: shortstring): boolean;

Description Verifies if the time is in a valid ISO 8601 format

Currently does not support the fractional second parameters, and only the format recommended by W3C when used with the time zone designator.

Parameters timestr Time string in valid ISO 8601 format

Returns TRUE if the time string is valid otherwise false

UNIXToDateTime procedure _____

Declaration procedure UNIXToDateTime(epoch: longword; var year, month, day, hour,

minute, second: Word);

Description Converts a UNIX styled time (the number of seconds since 1970) to a standard date and time

representation.

6.4 Constants

CHAR_ENCODING_UTF8 _____

Declaration CHAR_ENCODING_UTF8 = 0;

Description Character encoding value: UTF-8 storage format

CHAR_ENCODING_UNKNOWN _____

Declaration CHAR_ENCODING_UNKNOWN = -1;

Description Character encoding value: unknown format

CHAR_ENCODING_UTF32BE _____

Declaration CHAR_ENCODING_UTF32BE = 1;

Description Character encoding value: UTF-32 Big endian

CHAR_ENCODING_UTF32LE _____

Declaration CHAR_ENCODING_UTF32LE = 2;

Description Character encoding value: UTF-32 Little endian

CHAR_ENCODING_UTF16LE _____

Declaration CHAR_ENCODING_UTF16LE = 3;

Description Character encoding value: UTF-16 Little endian

CHAR_ENCODING_UTF16BE _____

Declaration CHAR_ENCODING_UTF16BE = 4;

Description Character encoding value: UTF-16 Big endian

CHAR_ENCODING_BYTE _____

Declaration CHAR_ENCODING_BYTE = 5;

Description Character encoding value: One byte per character storage format

CHAR_ENCODING_UTF16 _____

Declaration CHAR_ENCODING_UTF16 = 6;

Description Character encoding value: UTF-16 unknown endian (determined by BOM)

CHAR_ENCODING_UTF32 ____

Declaration CHAR_ENCODING_UTF32 = 7;

Description Character encoding value: UTF-32 unknown endian (determined by BOM)

6.5 Author

Unit tpautils

7.1 Description

Turbo Pascal 7 Compatibility unit

This unit includes common definitions so that common code can be compiled under the Turbo/Borland pascal compilers. It supports both Turbo Pascal 7.0 and Borland Pascal 7.0 and higher.

7.2 Author

Unit unicode

8.1 Description

unicode support unit

This unit contains routines to convert between the different unicode encoding schemes. All UNICODE/ISO 10646 strings are limited to 255 characters. Since all these encoding are variable length, except the UTF-32 (which is equivalent to UCS-4 according to ISO 10646:2003) and UCS-2 encoding, to parse through characters, every string should be converted to UTF-32 or UCS-2 before being used.

8.2 Overview

ConvertFromUTF32 Convert an UTF-32 string to a single byte encoded string
ConvertToUTF32 Convert a byte encoded string to an UTF-32 string
ConvertUCS2ToUTF32 Convert an UCS-2 string to an UTF-32 string
ConvertUTF16ToUTF32 Convert an UTF-16 string to an UTF-32 string
ConvertUTF32ToUCS2 Convert an UTF-32 string to an UCS-2 string
ConvertUTF32toUTF16 Convert an UTF-32 string to an UTF-16 string
convertUTF32toUTF8 Convert an UTF-32 string to an UTF-8 string
ConvertUTF8ToUTF32 Convert an UTF-8 string to an UTF-32 string
lengthUTF16 Returns the current length of an UTF-16 string
lengthutf8 Returns the current length of an UTF-8 string
setlengthUTF16 Set the length of an UTF-16 string
setlengthUTF16 Set the length of an UTF-8 string

ucs2_length Returns the current length of an UCS-2 string

ucs2_setlength Set the new dynamic length of an ucs-2 string

utf16_sizeencoding Returns the number of characters that are used to encode this character

utf32strlen Returns the number of characters in the null terminated UTF-32 string

utf32strpas Converts a null-terminated UTF-32 string to a Pascal-style UTF-32 string.

utf32strpasToIS08859_1 Converts a null-terminated UTF-32 string to a Pascal-style ISO 8859-1 encoded string.

utf32strpcopy Copies a Pascal-style UTF-32 string to a null-terminated UTF-32 string.

utf32strpcopyascii Copies a Pascal-style string to a null-terminated UTF-32 string.

utf32_concat Concatenates two UTF-32 strings, and gives a resulting UTF-32 string

utf32_concatascii Concatenates an UTF-32 string with an ASCII string, and gives a resulting UTF-32 string

utf32_copy Returns an utf-32 substring of an utf-32 string

utf32_delete Deletes a substring from a string

utf32_equal Checks if both UTF-32 strings are equal

utf32_equalascii Checks if an ASCII string is equal to an UTF-32 string

utf32_issupported Checks if conversion from/to this character set format to/from UTF-32 is supported

utf32_isvalid Checks if the UTF-32 character is valid

utf32_iswhitespace Determines if the specified character is a whitespace character

utf32_length Returns the current length of an UTF-32 string

utf32_pos Searches for an UTF-32 substring in an UTF-32 string

utf32_posascii Searches for an ASCII substring in an UTF-32 string

utf32_setlength Set the new dynamic length of an utf-32 string

utf32_trimleft Trims leading spaces and control characters from an UTF-32 string.

utf32_trimright Trims trailing spaces and control characters from an UTF-32 string.

utf8strnew Converts an UTF-32 null terminated string to an UTF-8 null terminated string

utf8_sizeencoding Returns the number of characters that are used to encode this character

8.3 Functions and Procedures

ConvertFromUTF32 function _

Declaration function ConvertFromUTF32(source: utf32string; var dest: shortstring; desttype: string): integer;

Description Convert an UTF-32 string to a single byte encoded string

This routine converts an UTF-32 string stored in native byte order (native endian) to a single-byte encoded string. The string is limited to 255 characters, and if the conversion cannot be successfully be completed, it gives out an error. The following desttype can be specified: ISO-8859-1, windows-1252, ISO-8859-2, ISO-8859-5, ISO-8859-16, macintosh, atari, cp437, cp850, ASCII.

Parameters desttype Indicates the single byte encoding scheme

Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion

ConvertToUTF32 function ___

Declaration function ConvertToUTF32(source: shortstring; var dest: utf32string; srctype: string): integer;

Description Convert a byte encoded string to an UTF-32 string

This routine converts a single byte encoded string to an UTF-32 string stored in native byte order The string is limited to 255 characters, and if the conversion cannot be successfully be completed, it gives out an error. The following srctype can be specified: ISO-8859-1, windows-1252, ISO-8859-2, ISO-8859-5, ISO-8859-16, macintosh, atari, cp437, cp850, ASCII.

Parameters srctype Indicates the single byte encoding scheme

 ${\bf Returns}~{\tt UNICODE_ERR_OK}(8.5)$ if there was no error in the conversion

ConvertUCS2ToUTF32 function ___

Declaration function ConvertUCS2ToUTF32(src: array of ucs2char; var dst: utf32string): integer;

Description Convert an UCS-2 string to an UTF-32 string

This routine converts an UCS-2 string to an UTF-32 string that is stored in native byte order (big-endian). If some characters could not be converted an error will be reported.

Parameters src Either a single ucs-2 character or a complete ucs-2 string

dest Resulting UTF-32 coded string

Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion

ConvertUTF16ToUTF32 function _____

Declaration function ConvertUTF16ToUTF32 (src: utf16string; var dst: utf32string):

integer;

Description Convert an UTF-16 string to an UTF-32 string

This routine converts an UTF-16 string to an UTF-32 string. Both strings must be stored in native byte order (native endian).

Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion

ConvertUTF32ToUCS2 function _____

Declaration function ConvertUTF32ToUCS2(src: array of utf32; var dst: ucs2string): integer;

Description Convert an UTF-32 string to an UCS-2 string

This routine converts an UTF-32 string to an UCS-2 string that is stored in native byte order. If some characters could not be converted an error will be reported.

Parameters src Either a single utf-32 character or a complete utf-32 string

dest Resulting UCS-2 coded string

Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion

ConvertUTF32toUTF16 function ____

Declaration function ConvertUTF32toUTF16(src: array of utf32; var dest: utf16string): integer;

Description Convert an UTF-32 string to an UTF-16 string

This routine converts an UTF-32 string to an UTF-16 string. Both strings must be stored in native byte order (native endian).

Parameters src Either a single utf-32 character or a complete utf-32 string

dest Resulting UTF-16 coded string

Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion

convertUTF32toUTF8 function __

Declaration function convertUTF32toUTF8(s: array of utf32; var outstr: utf8string): integer;

Description Convert an UTF-32 string to an UTF-8 string

Converts an UTF-32 string or character in native endian to an UTF-8 string.

```
Parameters s Either a single utf-32 character or a complete utf-32 string
            outstr Resulting UTF-8 coded string
   Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion
ConvertUTF8ToUTF32 function ____
Declaration function ConvertUTF8ToUTF32(src: utf8string; var dst: utf32string):
            integer;
Description Convert an UTF-8 string to an UTF-32 string
            This routine converts an UTF-8 string to an UTF-32 string that is stored in native byte order.
   Returns UNICODE_ERR_OK(8.5) if there was no error in the conversion
lengthUTF16 function _____
Declaration function lengthUTF16(s: array of utf16): integer;
Description Returns the current length of an UTF-16 string
lengthutf8 function ____
Declaration function lengthutf8(s: array of utf8): integer;
Description Returns the current length of an UTF-8 string
setlengthUTF16 procedure ____
Declaration procedure setlengthUTF16(var s: array of utf16; 1: integer);
Description Set the length of an UTF-16 string
setlengthUTF8 procedure _____
Declaration procedure setlengthUTF8(var s: array of utf8; 1: integer);
Description Set the length of an UTF-8 string
ucs2_length function _____
Declaration function ucs2_length(s: array of ucs2char): integer;
Description Returns the current length of an UCS-2 string
ucs2_setlength procedure ____
Declaration procedure ucs2_setlength(var s: array of ucs2char; 1: integer);
```

Description Set the new dynamic length of an ucs-2 string

utf16_sizeencoding function _____

Declaration function utf16_sizeencoding(c: utf16): integer;

Description Returns the number of characters that are used to encode this character

. Actually checks if this is a high-surrogate value, if not returns 1, indicating that the character is encoded a single utf16 character, otherwise returns 2, indicating that 1 one other utf16 character is required to encode this data.

utf32strlen function _____

Declaration function utf32strlen(str: putf32char): integer;

Description Returns the number of characters in the null terminated UTF-32 string

Parameters str The UTF-32 null terminated string to check

Returns The number of characters in str, not counting the null character

utf32strpas procedure _____

Declaration procedure utf32strpas(Str: putf32char; var res:utf32string);

Description Converts a null-terminated UTF-32 string to a Pascal-style UTF-32 string.

utf32strpasToISO8859_1 function _____

Declaration function utf32strpasToIS08859_1(Str: putf32char): string;

Description Converts a null-terminated UTF-32 string to a Pascal-style ISO 8859-1 encoded string.

utf32strpcopy function _____

Declaration Function utf32strpcopy(Dest: Putf32char; Source: UTF32String):PUTF32Char;

Description Copies a Pascal-style UTF-32 string to a null-terminated UTF-32 string.

UTF32StrPCopy does not perform any length checking. The destination buffer must have room for at least Length(Source)+1 characters.

utf32strpcopyascii function _____

Declaration Function utf32strpcopyascii(Dest: Putf32char; Source: string):PUTF32Char;

Description Copies a Pascal-style string to a null-terminated UTF-32 string.

UTF32StrPCopyASCII does not perform any length checking. The destination buffer must have room for at least Length(Source)+1 characters.

```
utf32_concat procedure _____
Declaration procedure utf32_concat(var resultstr: utf32string; s1: utf32string; s2:
            array of utf32);
Description Concatenates two UTF-32 strings, and gives a resulting UTF-32 string
utf32_concatascii procedure ____
Declaration procedure utf32_concatascii(var resultstr: utf32string;s1: utf32string; s2:
            shortstring);
Description Concatenates an UTF-32 string with an ASCII string, and gives a resulting UTF-32 string
utf32_copy procedure _
Declaration procedure utf32_copy(var resultstr: utf32string; s: array of utf32; index:
            integer; count: integer);
Description Returns an utf-32 substring of an utf-32 string
utf32_delete procedure __
Declaration procedure utf32_delete(var s: utf32string; index: integer; count:
            integer);
Description Deletes a substring from a string
utf32_equal function _____
Declaration function utf32_equal(const s1,s2: utf32string): boolean;
Description Checks if both UTF-32 strings are equal
utf32_equalascii function _____
Declaration function utf32_equalascii(s1 : array of utf32; s2: shortstring): boolean;
Description Checks if an ASCII string is equal to an UTF-32 string
utf32_issupported function ____
Declaration function utf32_issupported(s: string): boolean;
Description Checks if conversion from/to this character set format to/from UTF-32 is supported
Parameters s This is an alias for a character set, as defined by IANA
```

Returns true if conversion to/from UTF-32 is supported with this character set, otherwise FALSE

```
utf32_isvalid function _____
Declaration function utf32_isvalid(c: utf32): boolean;
Description Checks if the UTF-32 character is valid
            This routine verifies if the UTF-32 character is within the valid ranges of UTF-32 characters,
            as specified in the Unicode standard 4.0. BOM characters are NOT valid with this routine.
utf32_iswhitespace function _____
Declaration function utf32_iswhitespace(c: utf32): boolean;
Description Determines if the specified character is a whitespace character
utf32_length function _____
Declaration function utf32_length(s: array of utf32): integer;
Description Returns the current length of an UTF-32 string
utf32_pos function _
Declaration function utf32_pos(substr: utf32string;s: utf32string): integer;
Description Searches for an UTF-32 substring in an UTF-32 string
utf32_posascii function _____
Declaration function utf32_posascii(substr: shortstring; s: utf32string): integer;
Description Searches for an ASCII substring in an UTF-32 string
utf32_setlength procedure _____
Declaration procedure utf32_setlength(var s: array of utf32; 1: integer);
Description Set the new dynamic length of an utf-32 string
utf32_trimleft procedure ____
Declaration procedure utf32_trimleft(var s: utf32string);
Description Trims leading spaces and control characters from an UTF-32 string.
utf32_trimright procedure _____
Declaration procedure utf32_trimright(var s: utf32string);
Description Trims trailing spaces and control characters from an UTF-32 string.
```

utf8strnew	function
Declaration	function utf8strnew(src: putf32char): pchar;
Description	Converts an UTF-32 null terminated string to an UTF-8 null terminated string
	The memory for the buffer is allocated. Use strlen to dispose of the allocated string. The string is null terminated.
utf8_sizeen	coding function
Declaration	<pre>function utf8_sizeencoding(c: utf8): integer;</pre>
Description	Returns the number of characters that are used to encode this character
8.4 Typ	oes
utf8	
Declaration	utf8 = char;
Description	UTF-8 base data type
utf16	
Declaration	utf16 = word;
Description	UTF-16 base data type
utf32	
Declaration	utf32 = longword;
Description	UTF-32 base data type
putf32char	·
Declaration	<pre>putf32char = ^utf32;</pre>
Description	UTF-32 string null terminated string
ucs2char _	
	ucs2char = word;
Description	UCS-2 base data type

```
ucs2string _____
Declaration ucs2string = array[0..255] of ucs2char;
Description UCS-2 string declaration. Index 0 contains the active length of the string in characters.
utf32string _____
Declaration utf32string = array[0..255] of utf32;
Description UTF-32 string declaration. Index 0 contains the active length of the string in characters.
utf8string _____
Declaration utf8string = array[0..1024] of utf8;
Description UTF-8 string declaration. Index 0 contains the active length of the string in BYTES
utf16string _____
Declaration utf16string = array[0..255] of utf16;
Description UTF-16 string declaration. Index 0 contains the active length of the string in BYTES
8.5
      Constants
MAX_UTF32_CHARS _____
Declaration MAX_UTF32_CHARS = high(smallint) div (sizeof(utf32));
Description Maximum size of a null-terminated UTF-32 character string
UNICODE_ERR_OK ____
Declaration UNICODE_ERR_OK = 0;
Description Return status: conversion successful
UNICODE_ERR_SOURCEILLEGAL _____
Declaration UNICODE_ERR_SOURCEILLEGAL = -1;
Description Return status: source sequence is illegal/malformed
UNICODE_ERR_LENGTH_EXCEED _
Declaration UNICODE_ERR_LENGTH_EXCEED = -2;
```

Description Return status: Target space excedeed

UNICODE_ERR_INCOMPLETE_CONVERSION _____

Declaration UNICODE_ERR_INCOMPLETE_CONVERSION = -3;

Description Return status: Some character could not be successfully converted to this format

UNICODE_ERR_NOTFOUND _____

Declaration UNICODE_ERR_NOTFOUND = -4;

Description Return status: The character set is not found

BOM_UTF8 _____

Declaration BOM_UTF8 = #\$EF#\$BB#\$BF;

Description Byte order mark: UTF-8 encoding signature

BOM_UTF32_BE _____

Declaration BOM_UTF32_BE = #00#00#\$FE#\$FF;

Description Byte order mark: UTF-32 big endian encoding signature

BOM_UTF32_LE ____

Declaration BOM_UTF32_LE = #\$FF#\$FE#00#00;

Description Byte order mark: UTF-32 little endian encoding signature

8.6 Author

Unit utils

9.1 Description

General utilities common to all platforms.

9.2 Overview

EscapeToPascal

boolstr Convert a boolean value to an ASCII representation decstr Convert a value to an ASCII decimal representation

FileExists Verifies the existence of a filename

hexstr Convert a value to an ASCII hexadecimal representation

Printf Format a string and print it out to the console

StreamErrorProcedure Generic stream error procedure

SwapLong Change the endian of a 32-bit value

SwapWord Change the endian of a 16-bit value

TrimLeft Remove all whitespace from the start of a string

TrimRight Remove all whitespace from the end of a string

UpString Convert a string to uppercase ASCII

ValBinary

ValDecimal

ValHexadecimal

ValOctal

9.3 Functions and Procedures

boolstr fur	nction
Declaration	function boolstr(val: boolean; cnt: byte): string;
Description	Convert a boolean value to an ASCII representation
	To avoid left padding with spaces, set cnt to zero.
decstr fund	ction
Declaration	<pre>function decstr(val : longint;cnt : byte) : string;</pre>
Description	Convert a value to an ASCII decimal representation
	To avoid left padding with zeros, set cnt to zero.
EscapeToF	Pascal function
Declaration	function EscapeToPascal(const s:string; var code: integer): string;
Description	Converts a C style string (containing escape characters), to a pascal style string. Returns the converted string. If there is no error in the conversion, code will be equal to zero.
Parameters	s String to convert
	code Result of operation, 0 when there is no error
FileExists	function
Declaration	Function FileExists(FName : string): Boolean;
Description	Verifies the existence of a filename
	This routine verifies if the file named can be opened or if it actually exists. FName Name of the file to check Returns FALSE if the file cannot be opened or if it does not exist.
hexstr fun	ction
Declaration	<pre>function hexstr(val : longint;cnt : byte) : string;</pre>
Description	Convert a value to an ASCII hexadecimal representation
Printf fund	ction
Declaration	<pre>function Printf(const s : string; var Buf; size : word): string;</pre>

Description Format a string and print it out to the console

This routine formats the string specified in s to the format specified and returns the resulting string. The following specifiers are allowed: %d: The buffer contents contains an integer %s: The buffer contents contains a string, terminated by a null character. %bh: The buffer contents contains a byte coded in BCD format, only the high byte will be kept. %bl: The buffer contents contains a byte coded in BCD format, only the low byte will be kept. s The string to format, with format specifiers buf The buffer containing the data size The size of the data in the buffer Returns The resulting formatted string

StreamErrorProcedure
Declaration procedure StreamErrorProcedure(Var S: TStream);
Description Generic stream error procedure
Generic stream error procedure that can be used to set streamerror
SwapLong procedure
Declaration Procedure SwapLong(var x : longword);
Description Change the endian of a 32-bit value
SwapWord procedure
Declaration Procedure SwapWord(var x : word);
Description Change the endian of a 16-bit value
TrimLeft function
Declaration function TrimLeft(const S: string): string;
Description Remove all whitespace from the start of a string
TrimRight function
Declaration function TrimRight(const S: string): string;
Description Remove all whitespace from the end of a string
UpString function
Declaration function UpString(s : string): string;
Description Convert a string to uppercase ASCII

ValBinary function _____

Declaration function ValBinary(const S:String; var code: integer):longint;

Description Convert a binary value represented by a string to its numerical value. If there is no error,

code will be equal to zero.

ValDecimal function _____

Declaration function ValDecimal(const S:String; var code: integer):longint;

Description Convert a decimal value represented by a string to its numerical value. If there is no error,

code will be equal to zero.

ValHexadecimal function _____

Declaration function ValHexadecimal(const S:String; var code: integer):longint;

Description Convert an hexadecimal value represented by a string to its numerical value. If there is no

error, code will be equal to zero.

ValOctal function ____

Declaration function ValOctal(const S:String; var code: integer):longint;

Description Convert an octal value represented by a string to its numerical value. If there is no error,

code will be equal to zero.

9.4 Author

Unit vpautils

10.1 Description

Virtual Pascal Compatibility unit

This unit includes common definitions so that common code can be compiled under the Virtual pascal compiler. It supports Virtual Pascal 2.1 and higher for the Win32, DOS and OS/2 targets.

10.2 Author