c_dtc.doc

COLLABORATORS

	TITLE : c_dtc.doc		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		August 25, 2024	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

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 c.datatype

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```
NAME
    c.datatype - data type for any c source

FUNCTION
    This datatype is designed to display C and C++ source codes. It
    display's different parts of the C source in different style and
    color.At the moment these parts are :
        STANDARD - any text which, doesn't match the following parts
        COMMENT  - any comment such like /* ... */ and // ...
        CPP      - any C-PreProcessor keyword like "#define" or "#include"
        KEYWORD  - any C/C++ keyword, which isn't handled explicitly
        STORAGE  - extern,static,register,auto keywords
        TYPES    - basic type keywords like int,char,long etc.
        TYPENAME - any name following a struct,union,class or enum
        STRING   - any string or char literal
        NUMBER   - any number constant decimal,hex
        HEADER   - any include filename

    It uses a parser generated by bison with my yacc grammer.Because it's
    a parser, it may occur a parse error on some unusual source code. If
    this happens please send me a description of this parse error and
    maybe the input file. So I can fix this problem !

PREFS
    The c.prefs file is searched first in PROGDIR:Prefs/DataTypes/ and
    then in Env:DataTypes/ with the following five ReadArgs() templates :

    - CPART/A/K,PEN/N/K,R=RED/N/K,G=GREEN/N/K,B=BLUE/N/K,BGPEN/N/K,
      BGR=BGRED/N/K,BGG=BGGREEN/N/K,BGB=BGBLUE/N/K,ITALIC/S,BOLD/S,
      UNDERLINED/S,TEXT/S
```

CPART is one of the explaned cpart names like COMMENT or CPP.
PEN assigns the color with the pen number to the specified part
R,G,B defines a new color for the specified part. This color is
       allocated with ObtainBestPenA(...,OBP_Precision,
                                     PRECISION_ICON);
BGPEN same as PEN, but for background
BGR,BGG,BGB defines a new background color for the specified part.
       This color is allocated with ObtainBestPenA(...,OBP_Precision,
                                     PRECISION_ICON);
ITALIC,BOLD,UNDERLINED specifies the font style for the part
TEXT treat this CPART as normal text

– GLOBAL/A/S,TABLENGTH/N/K,NONESTEDCOMMENTS/S

GLOBAL indicates, that this line is a global setting. Note: The
     /A/S combination isn't supported from ReadArgs(), so I check
     it manually !
TABLENGTH – number of spaces to use for a tab !
NONESTEDCOMMENTS – disables nested comments

– INLINEARGS/A/S,KEYWORD/K/A,PATTERN/K/A,LINES/N/K

INLINEARGS indicates ,that this line is a inline args setting
KEYWORD defines the keyword to search for the inlined arguments for
     the first lines. You can specify any string, which is compared
     using strcmp(). After the keyword follows directly the pattern
     specified by PATTERN.
PATTERN defines the pattern to get the inlined arguments. Any char
     in the pattern must match the char in the text after the
     keyword. To get any arguments you can specify a template using
     the '%' char like in scanf() function. Following options are
     supported :
         %t – stands for the TABLENGTH
         %c – stands for NESTEDCOMMENTS or NONESTEDCOMMENTS
LINES – specifies the number of lines from the beginning scanned
     for inline arguments. Default is 10.

– USERTYPES/A/S,TYPES/M

USERTYPES indicates, that this line contains user defined types

TYPES defines words to treat as basic types like int or long etc.

– USERKEYWORDS/A/S,KEYWORDS/M

USERKEYWORDS indicates, that this line contains user defined
     keywords

KEYWORDS defines words to treat as keywords like return etc.

– USERSTORAGE/A/S,STORAGE/M

USERSTORAGE indicates, that this line contains user defined
     storage keywords

STORAGE defines words to treat as storage keywords like static or
     register

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HISTORY
    see doc/c.datatype.rev

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SEE ALSO
    text.datatype
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