

**c\_dtc.doc**

**COLLABORATORS**

	<i>TITLE :</i> c_dtc.doc		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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**REVISION HISTORY**

NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## c\_dtc.doc

### 1.1 c\_dtc.doc

c.datatype

### 1.2 c.datatype/c.datatype

#### 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 explained 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

HISTORY

see doc/c.datatype.rev

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SEE ALSO

text.datatype

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