

VCOPTS Documentation

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Chapter 1

VCOPTS Documentation

1.1 VCOPTS Documentation - Contents

VCOPTS 1.39

A BGUI based preferences editor for the vbcc C compiler

By Tony Jones

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Introduction

Requirements

Installation

Usage

Legal Stuff

Credits

Author

History

1.2 VCOPTS Introduction

I was fed up with manually editing my vc.config files or VMakefiles, so I started writing a preferences editor .. VCOPTS was born.

1.3 Requirements

Requirements

VCOPTS requires bgui.library v41, formerly by Jan van den Baard, now by Ian J. Einman (74271.2766@compuserve.com or ie@az.com), and intuition.library v39.

VCOPTS also requires vbcc v0.5. (pub/aminet/dev/vbcc.lha)

The full user and dev packages of the beta release of bgui.library v41

are available from Ian's web page at <http://www.az.com/~ie/bgui/>

The beta release of bgui.library is included in the libs directory -- two versions are included; bgui.library and bgui.library_e. The latter is an enhanced version for 68020+ and OS 3.x.

1.4 Installation

Installation

Copy VCOPTS to vbcc:bin, and bgui.library to libs:

If you want to use bgui.library_e, copy it to libs: then rename it as bgui.library.

1.5 Usage

When run, VCOPTS opens up a window with five pages.

- Project
- Code
- Link
- Misc
- Switches

1.6 Project Page

The Project Page has four buttons:

Save

Save options to vc.config in the current directory

Save As Default

Save options to ENV:vc.config and ENVARC:vc.config

About

Bring up a requester giving a short description, version number and the date VCOPTS was last compiled.

Cancel

Quit VCOPTS without saving to a vc.config file.

1.7 Code Page

CPU : Select target processor type: 68000, 68020, 68040, 68060.

Math : Select target math library to be linked.

NoMath : no math library linked.
IEEE : mIEEE.lib is linked.
FPU : math library linked is dependant on processor type.
68000 - No fpu available, mIEEE.lib
68020 - m881.lib
68040 - m040.lib
68060 - m040.lib

Code : Select between large and small code to access external functions.

Large Code : Use absolute 32 bit addresses
Small Code : Use 16 bit offsets.

Data : Select between large and small data to access static data.

Large Data : Use absolute 32 bit addresses
Small Data : Use 16 bit offsets.

Opt : Select level of optimisation.

Default : Use default (non-specified) optimisation.
None : No optimisation at all.
Opt 1 : Level 1
Opt 2 : Level 2
Opt 3 : Level 3

See vbcc://doc/vbcc.doc for further details on optimisation.

1.8 Link Page

Name : Name of destination executable.

Output : Select between producing an executable or object files.

Executable : Compile and link.
Objects : Compile only.

Startup : Select startup code.

startup.o : Link full startup code (vlib:startup.o)
minstart.o : Link minimal startup code (vlib:minstart.o)

Compile : Tell vbcc whether to compile code or not.

Assemble : Tell vbcc whether to assemble code or not.

1.9 Misc Page

System : use ixemul.library or normal amigados libraries.

No ixemul.library :

Standard startup code is used (startup.o or minstart.o)
 vc.lib and amiga.lib are linked (vcs.lib and amigas.lib for Small Data).
 vcpp/dcpp uses vinclude: as it's include file search path.

ixemul.library :
 Startup code is crt0.o (bcrt0.o when Small Data is selected)
 ixemul.lib is linked (ixemuls.lib for Small Data)
 No math libraries are linked.
 vcpp/dcpp uses ixinclude: as it's include file search path.

Messages : Type of messages during compilation

Quiet : Only error/warning messages are printed during compilation.
 Verbose : Copyright messages, error/warning messages and command
 executed are printed during compilation.

Pre-processor : Choice of C pro-processor

vcpp : standard vbcc pre-processor
 dcpp : use dcpp from the DICE C compiler. Not very useful since
 dcpp outputs lines such as

```
#1 file.c 1
```

but vbcc is expecting

```
#line 1 file.c
```

Assembler : Choice of assembler

PhxAss : Use Frank Willie's PhxAss (supplied with vbcc)
 GNU as : Use the GNU as assembler
 pasm : Use the forthcoming PowerPC assembler

Compiler : Choice of compiler

68k : Use Motorola 680x0 compiler (vbcca68k)
 i386 : Use Intel i386 compiler
 PPC : Use the forthcoming Motorola PowerPC compiler (StormC will
 not be the only PPC compiler :-)

1.10 Switches Page

C++ Comments : Allow // type comments in source code

No tmpname() : Tell vc to not use the tmpnam() function to name
 temporary files. file.c will be named file.i, file.asm
 instead of vc_<num>.i and vc_<num>.asm.

FP Associative : Treat floating point operations as associative.

No Alias Opt : See vbcc://doc/vbcc.doc

ISO/ANSI : Switch to ISO/ANSI mode.

Strip Path : Strip the path of filename in error messages.

1.11 Thanks To ...

Thanks go out to ...

Lyn, Arron and Nikita .. my terrific family.
Volker Barthelmann .. for a great compiler, testing and good advice.
Jan van den Baard and Ian J. Einman for bgui.
Frank Willie .. for PhxAss.

1.12 Legal

The author is not responsible for any loss of data, damage(s) to software or hardware that may result directly or indirectly from the use of this program. The author reserves the right to make changes to the software or documentation without notice.

This program is freeware, this means that you can copy it freely as long as you don't ask any more money for it than a nominal fee for copying. If you want to distribute this program you must keep this document with it.

None of the files of the VCOPTS package may be modified or left out without permission of the author. Crunching or archiving is allowed only if none of the VCOPTS files get permanently modified by it.

Special permission is hereby granted to include VCOPTS in Public-Domain collections such as Fred Fish's Amiga Library or the Aminet archives.

1.13 Author Info

If you want to contact me for bug reports, ideas or just to let me know that you've seen it, try:

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1.14 What has he really done?

History:

< 1.00

Ancient History.

1.21

Changed from own file format/own vc to Volker's vc/vc.config file format.

1.34

Fixed -fpu options when ixemul.library is chosen.

1.36

Added "Default" optimisation option.

To do: ??
