

Re: Per-source CFLAGS

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2003-06/0279.html>

From: Bruce Evans (*bde_at_zeta.org.au*)

Date: 06/22/03

Date: Sun, 22 Jun 2003 12:07:58 +1000 (EST)
To: David Schultz <dschultz@OCF.Berkeley.EDU>

On Sat, 21 Jun 2003, David Schultz wrote:

> *The following patch adds support for per-file CFLAGS, which gets*
> *appended to the command line after the global CFLAGS. I would*
> *...*
> *I intend to use this feature for gdtoa, which is technically part*
> *of libc, but also on a vendor branch and intended to stay that*
> *way. The problem being addressed is that gcc at higher warning*
> *levels has some inane warnings that the vendor and I consider*
> *wrong, and yet people want to be able to compile libc cleanly at*
> *these warning levels. As an example, gcc complains that the*
> *expression 'a << b - c' must have parentheses because obviously*
> *nobody remembers C's precedence rules. So here's just one*
> *potential use of the new feature:*

For this, you really want per-file WARNS, since among other reasons compiler-dependent flags shouldn't be put in individual Makefiles.

> *Index: lib/libc/gdtoa/Makefile.inc*

>

```
=====
> RCS file: /cvs/src/lib/libc/gdtoa/Makefile.inc,v
> retrieving revision 1.3
> diff -u -r1.3 Makefile.inc
> --- lib/libc/gdtoa/Makefile.inc 5 Apr 2003 22:10:13 -0000 1.3
> +++ lib/libc/gdtoa/Makefile.inc 2 May 2003 09:31:15 -0000
> @@ -16,6 +16,7 @@
> .for src in ${GDTOASRCS}
> MISRCS+=gdtoa_${src}
> CLEANFILES+=gdtoa_${src}
> +CFLAGS_gdtoa_${src}+=-w
```

Do you need to turn off all warnings or just ones for non-broken precedence and a few other non-broken things? gcc doesn't give enough control over individual warnings, but it has `-Wno-parentheses` for turning off not much more than bogus warnings about natural precedence.

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> *The patch I would actually like reviewed is this one:*

> ...

> *Index: share/mk/sys.mk*

>

=====
> *RCS file: /cvs/src/share/mk/sys.mk,v*

> *retrieving revision 1.67*

> *diff -u -r1.67 sys.mk*

> *--- share/mk/sys.mk 1 Jun 2003 22:13:45 -0000 1.67*

> *+++ share/mk/sys.mk 21 Jun 2003 08:56:15 -0000*

> ...

> *@@ -117,7 +117,8 @@*

>

> *# SINGLE SUFFIX RULES*

> *.c:*

> *- \${CC} \${CFLAGS} \${LDFLAGS} -o \${.TARGET} \${.IMPSRC}*

> *+ \${CC} \${CFLAGS} \${CFLAGS_\${.IMPSRC}} \${LDFLAGS} *

> *+ -o \${.TARGET} \${.IMPSRC}*

> ...

Some rules are specified by POSIX, so they can't be changed. I don't see how `${CFLAGS}` can be per-file directly, so the POSIX spec seems to be actively opposed to per-file CFLAGS.

Bruce

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