

## Re: bsd.cpu.mk confusion

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2005-06/1411.html>

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**From:** Ulrich Spoerlein (*spoerlein\_at\_informatik.uni-wuerzburg.de*)

**Date:** 06/29/05

Date: Wed, 29 Jun 2005 16:15:56 +0200  
To: Björn König <bkoenig@cs.tu-berlin.de>

On Wed, 29.06.2005 at 15:04:12 +0200, Björn König wrote:

> *Ulrich Spoerlein wrote:*

>

> > [...]

> > *Here's a minimal Makefile*

> > *CPUTYPE=pentium-m*

> > *CC=icc*

> > *.include <bsd.prog.mk>*

> > *.include <bsd.cpu.mk>*

> > *Then*

> > *% make -V CFLAGS*

> > *-O2 -fno-strict-aliasing -pipe -march=pentium-m -tpp6 -xiMK*

>

> *You have overlooked that sys.mk will be processed "before any other*

> *file, including makefile and Makefile" (make(1)). /usr/share/mk/sys.mk*

> *includes already bsd.cpu.mk once at a time where CC has not been set to*

> *'icc'. Therefore \${\_CPUCFLAGS} will be added to CFLAGS in bsd.cpu.mk.*

> *Afterwards you include bsd.cpu.mk twice.*

Hmm, but since CPUTYPE isn't set at that time too, there shouldn't be the gcc-only -march flag, no?

Or is it the late macro expansion, that always confuses me.

Anyway, putting CC and CPUTYPE into make.conf solves my problems. But the thing is, I only want these flags on some specific programs, not all (especially CC=icc).

Looking at MAKEFILE\_LIST, it looks like I'm SOL

```
% make -V .MAKEFILE_LIST|tr ' ' \\n|sed '\.\/\.'d'  
/usr/share/mk/sys.mk  
/etc/make.conf  
/usr/share/mk/bsd.compat.mk  
/usr/share/mk/bsd.cpu.mk  
Makefile  
/usr/share/mk/bsd.prog.mk
```

```
/usr/share/mk/bsd.init.mk
/usr/share/mk/bsd.compat.mk
/usr/share/mk/bsd.own.mk
/usr/share/mk/bsd.libnames.mk
/usr/share/mk/bsd.nls.mk
/usr/share/mk/bsd.files.mk
/usr/share/mk/bsd.incs.mk
/usr/share/mk/bsd.links.mk
/usr/share/mk/bsd.man.mk
/usr/share/mk/bsd.dep.mk
/usr/share/mk/bsd.obj.mk
/usr/share/mk/bsd.own.mk
/usr/share/mk/bsd.subdir.mk
/usr/share/mk/bsd.init.mk
/usr/share/mk/bsd.sys.mk
```

Well, I could delete CFLAGS and force loading bsd.cpu.mk again, so this Makefile kinda works:

```
CFLAGS=
CC=icc
CPUTYPE=pentium-m

.include <bsd.prog.mk>
.include <bsd.cpu.mk>
% make -V CFLAGS
  -tpp6 -xiMK
% make -V .MAKEFILE_LIST|tr ' ' '\n|sed '/\./d'
/usr/share/mk/sys.mk
/etc/make.conf
/usr/share/mk/bsd.compat.mk
/usr/share/mk/bsd.cpu.mk
Makefile
/usr/share/mk/bsd.prog.mk
/usr/share/mk/bsd.init.mk
/usr/share/mk/bsd.compat.mk
/usr/share/mk/bsd.own.mk
/usr/share/mk/bsd.libnames.mk
/usr/share/mk/bsd.nls.mk
/usr/share/mk/bsd.files.mk
/usr/share/mk/bsd.incs.mk
/usr/share/mk/bsd.links.mk
/usr/share/mk/bsd.man.mk
/usr/share/mk/bsd.dep.mk
/usr/share/mk/bsd.obj.mk
/usr/share/mk/bsd.own.mk
/usr/share/mk/bsd.subdir.mk
/usr/share/mk/bsd.init.mk
/usr/share/mk/bsd.sys.mk
/usr/share/mk/bsd.cpu.mk
```

freebsd-current: Re: bsd.cpu.mk confusion

Am I asking for trouble using this construct? Thanks anyway for pointing me to make(1), d'oh!

Ulrich Spoerlein

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PGP Key ID: F0DB9F44 Encrypted mail welcome!  
Fingerprint: F1CE D062 0CA9 ADE3 349B 2FE8 980A C6B5 F0DB 9F44  
Ok, which part of "Ph'nglui mglw'nafh Cthulhu R'lyeh wgah'nagl fhtagn."  
didn't you understand?

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