

# [GIT PATCHES] kbuild updates for -rc3

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-02/msg01176.html>

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- *From:* Sam Ravnborg <[sam@xxxxxxxxxxxxxx](mailto:sam@xxxxxxxxxxxxxx)>
  - *Date:* Fri, 3 Feb 2006 19:35:58 +0100
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Hi Linus.

Please pull following kbuild bug-fixes:

- o kconfig: fix /dev/null breakage
- o cris: asm-offsets related build failure
- o kbuild: fix build with O=.

Purely bug-fixes that annoys a number of people. Should been in before -rc2 but did not get around to mail a pull request.

Available at:

[git://git.kernel.org/pub/scm/linux/kernel/git/sam/kbuild-bugfix.git](http://git.kernel.org/pub/scm/linux/kernel/git/sam/kbuild-bugfix.git)

All three patches included below for reference.

Sam

diffstat:

```
Makefile | 2 +-  
arch/cris/Makefile | 2 +-  
scripts/kconfig/lxdialog/Makefile | 7 +++++--  
scripts/kconfig/lxdialog/check-lxdialog.sh | 14 ++++++++-----  
4 files changed, 16 insertions(+), 9 deletions(-)
```

diff-tree 3835f82183eab8b67ddda6b32c127859a546c82d (from  
3ee68c4af3fd7228c1be63254b9f884614f9ebb2)

Author: Sam Ravnborg <[sam@xxxxxxxxxxxxxxxxxxx](mailto:sam@xxxxxxxxxxxxxxxxxxx)>

Date: Sat Jan 21 12:03:09 2006 +0100

kconfig: fix /dev/null breakage

While running "make menuconfig" and "make mrproper" some people experienced that /dev/null suddenly changed permissions or suddenly became a regular file.

The main reason was that /dev/null was used as output to gcc in the check-lxdialog.sh script and gcc did some strange things with the output file; in this case /dev/null when it errored out.

## [GIT PATCHES] kbuild updates for -rc3

Following patch implements a suggestion  
from Bryan O'Sullivan <bos@xxxxxxxxxxxxxxxx> to  
use gcc -print-file-name=libxxx.so.

Also the Makefile is adjusted to not resolve value of  
HOST\_EXTRACFLAGS and HOST\_LOADLIBES until they are actually used.  
This prevents us from calling gcc when running make \*clean/mrproper

Thanks to Eyal Lebedinsky <eyal@xxxxxxxxxxxxxxxx> and  
Jean Delvare <khali@xxxxxxxxxxxxxxxx> for the first error reports.

Signed-off-by: Sam Ravnborg <sam@xxxxxxxxxxxxxxxx>

---

```
diff --git a/scripts/kconfig/lxdialog/Makefile b/scripts/kconfig/lxdialog/Makefile
index fae3e29..bbf4887 100644
--- a/scripts/kconfig/lxdialog/Makefile
+++ b/scripts/kconfig/lxdialog/Makefile
@@ -1,11 +1,14 @@
# Makefile to build lxdialog package
#

check-lxdialog := $(srctree)/$(src)/check-lxdialog.sh
-HOST_EXTRACFLAGS:= $(shell $(CONFIG_SHELL) $(check-lxdialog) -ccflags)
-HOST_LOADLIBES := $(shell $(CONFIG_SHELL) $(check-lxdialog) -ldflags $(HOSTCC))
+
+# Use reursively expanded variables so we do not call gcc unless
+# we really need to do so. (Do not call gcc as part of make mrproper)
+HOST_EXTRACFLAGS = $(shell $(CONFIG_SHELL) $(check-lxdialog) -ccflags)
+HOST_LOADLIBES = $(shell $(CONFIG_SHELL) $(check-lxdialog) -ldflags $(HOSTCC))
```

```
HOST_EXTRACFLAGS += -DLOCALE
```

```
.PHONY: dochecklxdialog
$(obj)/dochecklxdialog:
diff --git a/scripts/kconfig/lxdialog/check-lxdialog.sh b/scripts/kconfig/lxdialog/check-lxdialog.sh
index 448e353..120d624 100644
--- a/scripts/kconfig/lxdialog/check-lxdialog.sh
+++ b/scripts/kconfig/lxdialog/check-lxdialog.sh
@@ -2,21 +2,21 @@
# Check ncurses compatibility

# What library to link
ldflags()
{
- echo "main() {}" | $cc -lncursesw -xc - -o /dev/null 2> /dev/null
+ $cc -print-file-name=libncursesw.so | grep -q /
if [ $? -eq 0 ]; then
echo '-lncursesw'
exit
fi
```

[GIT PATCHES] kbuild updates for -rc3

```
- echo "main() {}" | $cc -lncurses -xc - -o /dev/null 2> /dev/null
+ $cc -print-file-name=libncurses.so | grep -q /
if [ $? -eq 0 ]; then
echo '-lncurses'
exit
fi
- echo "main() {}" | $cc -lcurses -xc - -o /dev/null 2> /dev/null
+ $cc -print-file-name=libcurses.so | grep -q /
if [ $? -eq 0 ]; then
echo '-lcurses'
exit
fi
exit 1
@@ -34,14 +34,17 @@ ccflags()
else
echo '-DCURSES_LOC="<curses.h>"'
fi
}
```

```
-compiler=""
+# Temp file, try to clean up after us
+tmp=.lxdialog.tmp
+trap "rm -f $tmp" 0 1 2 3 15
+
# Check if we can link to ncurses
check() {
- echo "main() {}" | $cc -xc - -o /dev/null 2> /dev/null
+ echo "main() {}" | $cc -xc - -o $tmp 2> /dev/null
if [ $? != 0 ]; then
echo " *** Unable to find the ncurses libraries." 1>&2
echo " *** make menuconfig require the ncurses libraries" 1>&2
echo " *** " 1>&2
echo " *** Install ncurses (ncurses-devel) and try again" 1>&2
@@ -57,10 +60,11 @@ usage() {
if [ $# == 0 ]; then
usage
exit 1
fi

+cc=""
case "$1" in
"-check")
shift
cc="$@"
check
```

diff-tree aa6ba2faec346a3f59bf4130060108e6433ad907 (from  
3835f82183eab8b67ddda6b32c127859a546c82d)

Author: Al Viro <viro@xxxxxxxxxxxxxxxxxxx>

Date: Thu Jan 19 19:03:15 2006 +0000

[GIT PATCHES] kbuild updates for -rc3

cris: asm-offsets related build failure

fallout from "kbuild: cris use generic asm-offsets.h support" - symlink target was wrong

Signed-off-by: Al Viro <viro@xxxxxxxxxxxxxxxxxxxx>

Signed-off-by: Sam Ravnborg <sam@xxxxxxxxxxxx>

```
diff --git a/arch/cris/Makefile b/arch/cris/Makefile
index ea65d58..ee11469 100644
--- a/arch/cris/Makefile
+++ b/arch/cris/Makefile
@@ -117,11 +117,11 @@ $(SRC_ARCH)/.links:
@ln -sfn $(SRC_ARCH)/$(SARCH)/boot $(SRC_ARCH)/boot
@rm -rf $(SRC_ARCH)/lib
@ln -sfn $(SRC_ARCH)/$(SARCH)/lib $(SRC_ARCH)/lib
@ln -sfn $(SRC_ARCH)/$(SARCH) $(SRC_ARCH)/arch
@ln -sfn $(SRC_ARCH)/$(SARCH)/vmlinux.lds.S $(SRC_ARCH)/kernel/vmlinux.lds.S
- @ln -sfn $(SRC_ARCH)/$(SARCH)/asm-offsets.c $(SRC_ARCH)/kernel/asm-offsets.c
+ @ln -sfn $(SRC_ARCH)/$(SARCH)/kernel/asm-offsets.c $(SRC_ARCH)/kernel/asm-offsets.c
@touch $@
```

# Create link to sub arch includes

\$(srctree)/include/asm-\$(ARCH)/.arch: \$(wildcard include/config/arch/\*.h)

@echo 'Making \$(srctree)/include/asm-\$(ARCH)/arch -> \$(srctree)/include/asm-\$(ARCH)/\$(SARCH) symlink'

diff-tree 8c7f75d3257fe466b34abf290c8b177c106c3769 (from aa6ba2faec346a3f59bf4130060108e6433ad907)

Author: Sam Ravnborg <sam@xxxxxxxxxxxxxxxxxxxx>

Date: Sat Jan 21 12:07:56 2006 +0100

kbuild: fix build with O=..

.kernelrelease was saved in same directory as kernel source also with make O=..

Make sure we kick in the normal logic to shift to the output directory when we build .kernelrelease after executing \*config.

Signed-off-by: Sam Ravnborg <sam@xxxxxxxxxxxx>

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```
diff --git a/Makefile b/Makefile
index 252a659..31bbc6a 100644
--- a/Makefile
+++ b/Makefile
@@ -440,11 +440,11 @@ include $(srctree)/arch/$(ARCH)/Makefile
export KBUILD_DEFCONFIG
```

config %config: scripts\_basic outputmakefile FORCE

\$(Q)mkdir -p include/linux

[GIT PATCHES] kbuild updates for -rc3

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```
$(Q)$MAKE $(build)=scripts/kconfig $@  
- $(Q)$MAKE .kernelrelease  
+ $(Q)$MAKE -C $(srctree) KBUILD_SRC= .kernelrelease
```

else

```
# =====
```

```
# Build targets only – this includes vmlinux, arch specific targets, clean  
# targets and others. In general all targets except *config targets.
```

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