

batman-adv - Bug #333

Compiling 4.11-rc5 fails: "sys/socket.h: No such file or directory"

04/24/2017 08:31 PM - Linus Lüßing

Status:	Feedback	Start date:	04/24/2017
Priority:	Normal	Due date:	
Assignee:	Linus Lüßing	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			

Description

Trying to compile a recent batman-adv master branch with an 4.11-rc5 kernel on a Debian stable currently fails with the following error:

```
/tux/mesh-node/usr/src/linux-headers-4.11.0-rc5+ CONFIG_BATMAN_ADV_BATMAN_V=y CONFIG_BATMAN_ADV_DA
T=y CONFIG_BATMAN_ADV_BLA=y CONFIG_BATMAN_ADV_MCAST=y CONFIG_BATMAN_ADV_AGGR=y CONFIG_BATMAN_ADV_N
C=n EXTRA_CFLAGS="-Werror -DDEBUG -g -O1"
/home/tux/dev/batman-adv-t_x/gen-compat-autoconf.sh /home/tux/dev/batman-adv-t_x/compat-autoconf.h
mkdir -p /home/tux/dev/batman-adv-t_x/build/net/batman-adv/
compat-patches/replacements.sh
touch /home/tux/dev/batman-adv-t_x/build/net/batman-adv/.compat-prepared
/usr/bin/make -C /home/tux/mesh-node/usr/src/linux-headers-4.11.0-rc5+ M=/home/tux/dev/batman-adv-
t_x/build PWD=/home/tux/dev/batman-adv-t_x/build REVISION=2017.0.1-25-ga62cc2a CONFIG_BATMAN_ADV=m
CONFIG_BATMAN_ADV_DEBUG=y CONFIG_BATMAN_ADV_DEBUGFS=y CONFIG_BATMAN_ADV_BLA=y CONFIG_BATMAN_ADV_D
AT=y CONFIG_BATMAN_ADV_NC=n CONFIG_BATMAN_ADV_MCAST=y CONFIG_BATMAN_ADV_BATMAN_V=y INSTALL_MOD_DIR
=updates/ modules
make[1]: Entering directory '/home/tux/mesh-node/usr/src/linux-headers-4.11.0-rc5+'
No such file: c
No such file: c
CC [M] /home/tux/dev/batman-adv-t_x/build/net/batman-adv/../../../../compat-sources/net/core/skbuf
f.o
./include/linux/if.h:27:11: error: unable to open 'sys/socket.h'
In file included from ./include/linux/compat.h:16:0,
                 from ./include/linux/ethtool.h:16,
                 from /home/tux/dev/batman-adv-t_x/build/./compat-include/linux/ethtool.h:25,
                 from ./include/linux/netdevice.h:42,
                 from /home/tux/dev/batman-adv-t_x/build/./compat-include/linux/netdevice.h:25,
                 from ./include/linux/icmpv6.h:12,
                 from ./include/linux/ipv6.h:82,
                 from /home/tux/dev/batman-adv-t_x/build/net/batman-adv/../../../../compat-sources/ne
t/core/skbuff.c:36:
./include/linux/if.h:27:54: fatal error: sys/socket.h: No such file or directory
#include <sys/socket.h> /* for struct sockaddr. */
                                     ^
compilation terminated.
scripts/Makefile.build:294: recipe for target '/home/tux/dev/batman-adv-t_x/build/net/batman-adv/.
../../../../compat-sources/net/core/skbuff.o' failed
make[3]: *** [/home/tux/dev/batman-adv-t_x/build/net/batman-adv/../../../../compat-sources/net/core/s
kbuff.o] Error 1
scripts/Makefile.build:553: recipe for target '/home/tux/dev/batman-adv-t_x/build/net/batman-adv'
failed
make[2]: *** [/home/tux/dev/batman-adv-t_x/build/net/batman-adv] Error 2
Makefile:1492: recipe for target '_module_/home/tux/dev/batman-adv-t_x/build' failed
make[1]: *** [_module_/home/tux/dev/batman-adv-t_x/build] Error 2
make[1]: Leaving directory '/home/tux/mesh-node/usr/src/linux-headers-4.11.0-rc5+'
Makefile:90: recipe for target 'all' failed
make: *** [all] Error 2
```

The problem was probably introduced with this commit:

"uapi: fix linux/if.h userspace compilation errors" ([2618be7dcc](#))

Which is part of Linux since 4.11-rc1.

However, it feels like this issue might actually have the root cause in Debian's UAPI header stuff again ([#322](#)). The batman-adv Make process seems to use "linux-headers-4.11.0-rc5+/include/linux/if.h" which just has the *KERNEL* guard stripped:

```
#ifndef _LINUX_IF_H
#define _LINUX_IF_H

#include <linux/libc-compat.h>          /* for compatibility with glibc */
#include <linux/types.h>              /* for "__kernel_caddr_t" et al */
#include <linux/socket.h>             /* for "struct sockaddr" et al */
                                     /* for "__user" et al */

#include <sys/socket.h>                /* for struct sockaddr. */

[...]
```

Manually removing this include from the Debian make-kpkg compiled header directory or inserting the "#ifndef __KERNEL__" again helps to compile things again.

History

#1 - 02/27/2018 01:29 PM - Sven Eckelmann

- Assignee changed from batman-adv developers to Linus Lüssing
- Status changed from New to Feedback

Did you find a solution for that problem?