

LLVMLinux on x86 ...

... and what is left to
make allyesconfig

Old and new statistics

Last time:

- 18 broken items had to be disabled
- Over 100 patches have been merged or worked on on their way upstream
- Now:
 - 6 items had to be disabled
 - 1 item due to an error in a included object
- ⇒ 7 left

aes_ctrby8_avx-x86_64.c

AS arch/x86/crypto/aes_ctrby8_avx-x86_64.o

arch/x86/crypto/aes_ctrby8_avx-x86_64.S: Assembler messages:

arch/x86/crypto/aes_ctrby8_avx-x86_64.S:518: Error: bad expression

arch/x86/crypto/aes_ctrby8_avx-x86_64.S:518: Error: junk at end of line, first unrecognized character is `x'

Workaround :

Disable build in Makefile + "!CONFIG_CRYPTO_AES_NI_INTEL"

CONFIG_XEN

VLAIS

CC arch/x86/xen/mmu.o

arch/x86/xen/mmu.c:1343:18: error: fields must have a constant size:
'variable length array in structure' extension will never be supported

```
    DECLARE_BITMAP(mask, num_processors);  
                ^
```

include/linux/types.h:10:16: note: expanded from macro
'DECLARE_BITMAP'

```
    unsigned long name[BITS_TO_LONGS(bits)]  
                    ^
```

1 error generated.

MPILIB

MODULES_SIG & CONFIG_INTEGRITY_SIGNATURE

LD lib/mpi/mpi.o

lib/mpi/generic_mpih-mul1.o: In function `mpihelp_add_1':

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/lib/mpi/mpi-inline.h:45: multiple definition of `mpihelp_add_1'

lib/mpi/generic_mpih-lshift.o:/home/dl9pf/llvmlinux/targets/x86_64/src/linux /lib/mpi/mpi-inline.h:45: first defined here

lib/mpi/generic_mpih-mul1.o: In function `mpihelp_add':

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/lib/mpi/mpi-inline.h:67: multiple definition of `mpihelp_add'

lib/mpi/generic_mpih-lshift.o:/home/dl9pf/llvmlinux/targets/x86_64/src/linux /lib/mpi/mpi-inline.h:67: first defined here

lib/mpi/generic_mpih-mul1.o: In function `mpihelp_sub_1':

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/lib/mpi/mpi-inline.h:85: multiple definition of `mpihelp_sub_1'

CONFIG_GCOV_KERNEL

We cannot fix as gcda is part of the "external" compiler library compiler-rt (and we don't want to build/link with it)

drivers/built-in.o: In function `__llvm_gcov_writeout':

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/drivers/gpu/drm

/udl/udl_modeset.c:364: undefined reference to `llvm_gcda_start_file'

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/drivers/gpu/drm

/udl/udl_modeset.c:364: undefined reference to `llvm_gcda_emit_function'

/home/dl9pf/llvmlinux/targets/x86_64/src/linux/drivers/gpu/drm

/udl/udl_modeset.c:364: undefined reference to `llvm_gcda_emit_arcs'

CONFIG_MISDN

drivers/isdn/mISDN/layer2.c:(.text+0x1f02a7f):
undefined reference to `transmit_enquiry'

drivers/built-in.o: In function `l2_st8_tout_200':

drivers/isdn/mISDN/layer2.c:(.text+0x1f02b2f):
undefined reference to `transmit_enquiry'

drivers/built-in.o: In function `l2_st7_tout_203':

drivers/isdn/mISDN/layer2.c:(.text+0x1f02ba5):
undefined reference to `transmit_enquiry'

drivers/built-in.o: In function `hfcmulti_init':

CONFIG_SCSI_QLA_FC & CONFIG_TCM_QLA2XXX

drivers/built-in.o: In function `qla24xx_start_scsi':
(.text+0x8e245e): undefined reference to
`qla24xx_build_scsi_iocbs'

drivers/built-in.o: In function `qla82xx_start_scsi':
(.text+0x8e397c): undefined reference to
`qla24xx_build_scsi_iocbs'

STAGING RTLLIB

RTLLIB has undefined references ...

GZIP arch/x86/boot/compressed/vmlinux.bin.gz

ERROR: "rtllib_rx_auth" [drivers/staging/rtl8192e/rtllib.ko] undefined!

ERROR: "rtllib_rx_death" [drivers/staging/rtl8192e/rtllib.ko] undefined!

ERROR: "rtllib_rx_assoc_resp" [drivers/staging/rtl8192e/rtllib.ko] undefined!

ERROR: "rtllib_authentication_req" [drivers/staging/rtl8192e/rtllib.ko] undefined!

Next ...

- we want the most prominent issues fixed:
 - XEN
 - AES_NI
 - MPILIB
- ignoring the leaf broken options allows us to run the allyesconfig in the buildbot and finally properly catch regressions



Questions ?!

Ideas ?!

Suggestions ?!

Patches ?!