

[PATCH 4/7] uml: use Kbuild tracking for all files and fix compilation output

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-04/msg06712.html>

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Move the build of user-offsets to arch/um/sys-\$(SUBARCH), where it's located. So we can also build it via Kbuild with its dependency tracking rather than by hand. While hacking here, fix also a lot of little cosmetic things.

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```
arch/um/Makefile | 13 ++++++-----
arch/um/sys-i386/Makefile | 5 +++++-
arch/um/sys-x86_64/Makefile | 5 +++++-
3 files changed, 14 insertions(+), 9 deletions(-)
```

```
diff --git a/arch/um/Makefile b/arch/um/Makefile
index a508e7a..930e006 100644
--- a/arch/um/Makefile
+++ b/arch/um/Makefile
@@ -96,7 +96,8 @@ PHONY += linux
all: linux
```

```
linux: vmlinux
- ln -f $< $@
+ @echo ' SYMLINK $@'
+ $(Q)ln -f $< $@
```

```
define archhelp
echo '* linux - Binary kernel image (./linux) - for backward'
@@ -203,8 +204,8 @@ endef
$(ARCH_DIR)/include/uml-config.h : include/linux/autoconf.h
$(call filechk,umlconfig)
```

```
-$ (ARCH_DIR)/user-offsets.s: $(ARCH_DIR)/sys-$(SUBARCH)/user-offsets.c
- $(CC) $(USER_CFLAGS) -S -o $@ $<
+$(ARCH_DIR)/sys-$(SUBARCH)/user-offsets.s: FORCE
+ $(Q)$(MAKE) $(build)=$(ARCH_DIR)/sys-$(SUBARCH) $@
```

```
define filechk_gen-asm-offsets
```

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```
(set -e; \  
@@ -219,13 +220,11 @@ define filechk_gen-asm-offsets  
echo "";) \  
endif  
  
-$(ARCH_DIR)/include/user_constants.h: $(ARCH_DIR)/user-offsets.s  
+$(ARCH_DIR)/include/user_constants.h: $(ARCH_DIR)/sys-$(SUBARCH)/user-offsets.s  
$(call filechk,gen-asm-offsets)  
  
-CLEAN_FILES += $(ARCH_DIR)/user-offsets.s  
-  
$(ARCH_DIR)/include/kern_constants.h: $(objtree)/$(ARCH_DIR)/include  
@echo 'SYMLINK $@'  
- $(Q) ln -sf ../../include/asm-um/asm-offsets.h $@  
+ $(Q) ln -sf ../../include/asm-um/asm-offsets.h $@  
  
export SUBARCH USER_CFLAGS OS  
diff --git a/arch/um/sys-i386/Makefile b/arch/um/sys-i386/Makefile  
index 98b20b7..82121ab 100644  
--- a/arch/um/sys-i386/Makefile  
+++ b/arch/um/sys-i386/Makefile  
@@ -10,9 +10,12 @@ subarch-obj-$(CONFIG_MODULES) += kernel/  
  
USER_OBJS := bugs.o ptrace_user.o sigcontext.o fault.o stub_segv.o  
  
-include arch/um/scripts/Makefile.rules  
+USER_OBJS += user-offsets.s  
+extra-y += user-offsets.s  
  
extra-$(CONFIG_MODE_TT) += unmap.o  
  
+include arch/um/scripts/Makefile.rules  
+  
$(obj)/stub_segv.o $(obj)/unmap.o: \  
_c_flags = $(call unprofile,$(CFLAGS))  
diff --git a/arch/um/sys-x86_64/Makefile b/arch/um/sys-x86_64/Makefile  
index b5fc22b..f739bea 100644  
--- a/arch/um/sys-x86_64/Makefile  
+++ b/arch/um/sys-x86_64/Makefile  
@@ -18,9 +18,12 @@ ldt-y = ../sys-i386/ldt.o  
  
USER_OBJS := ptrace_user.o sigcontext.o stub_segv.o  
  
-include arch/um/scripts/Makefile.rules  
+USER_OBJS += user-offsets.s  
+extra-y += user-offsets.s  
  
extra-$(CONFIG_MODE_TT) += unmap.o  
  
+include arch/um/scripts/Makefile.rules  
+
```

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```
$(obj)/stub_segv.o $(obj)/unmap.o: \  
_c_flags = $(call unprofile,$(CFLAGS))
```

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