

Re: problems building fusefs-kmod

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2007-11/msg01438.html>

- *From:* Yuri Pankov <yuri.pankov@xxxxxxxxxx>
 - *Date:* Mon, 19 Nov 2007 05:28:24 +0300
-

On Monday 19 November 2007 05:00:39 Aryeh M. Friedman wrote:

Yuri Pankov wrote:

On Monday 19 November 2007 04:41:46 Aryeh M. Friedman wrote:

```
====> Building for fusefs-kmod-0.3.9.p1_2
====> fuse_module (all)
"/usr/share/mk/bsd.kmod.mk", line 12: "can't find kernel
source
tree"
```

I use the source layout described in development(7) and have set SRC_BASE to /usr/src2 (I always buildworld from here not /usr/src).

```
FreeBSD monster 8.0-CURRENT FreeBSD 8.0-CURRENT
#1: Thu Nov 15
19:17:50 EST 2007
aryeh@monster:/usr/obj/FreeBSD/FreeBSD-current/src/sys/MONSTER
amd64
```

Looking through /usr/share/mk/bsd.kmod.mk reveals that you need to set

SYSDIR

to location of your `sys' directory.

```
====> Vulnerability check disabled, database not found
====> Found saved configuration for fusefs-kmod-0.3.9.p1_2
=> fuse4bsd-0.3.9-pre1.tar.bz2 doesn't seem to exist in
/usr/ports/distfiles/.
=> Attempting to fetch from http://fuse4bsd.creo.hu/downloads/.
```

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```
fuse4bsd-0.3.9-pre1.tar.bz2 100% of 109 kB 974
Bps 00m00s
====> Extracting for fusefs-kmod-0.3.9.p1_2
=> MD5 Checksum OK for fuse4bsd-0.3.9-pre1.tar.bz2.
=> SHA256 Checksum OK for fuse4bsd-0.3.9-pre1.tar.bz2.
====> Patching for fusefs-kmod-0.3.9.p1_2
====> Applying FreeBSD patches for fusefs-kmod-0.3.9.p1_2
====> fusefs-kmod-0.3.9.p1_2 depends on package: fusefs-libs>2.4.1 -
found
====> fusefs-kmod-0.3.9.p1_2 depends on executable: deplate - found
====> Configuring for fusefs-kmod-0.3.9.p1_2
====> Building for fusefs-kmod-0.3.9.p1_2
====> fuse_module (all)
Warning: Object directory not changed from original
/usr/ports/workdir/FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod
/work/fuse4bsd-0.3.9-pre1/fuse_module @ ->
/FreeBSD/FreeBSD-current/src/sys
machine -> /FreeBSD/FreeBSD-current/src/sys/amd64/include
awk -f @/tools/vnode_if.awk @/kern/vnode_if.src -p
awk -f @/tools/vnode_if.awk @/kern/vnode_if.src -q
awk -f @/tools/vnode_if.awk @/kern/vnode_if.src -h
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I../include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_main.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I../include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_msg.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I../include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
```

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```
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_dev.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I./include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_vfsops.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I./include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_vnops.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I./include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_io.c
cc -O2 -fno-strict-aliasing -pipe -march=nocona -march=nocona
-D_KERNEL -DKLD_MODULE -std=c99 -nostdinc -I./include -I -I@
-I@/contrib/altq -finline-limit=8000 --param inline-unit-growth=100
--param large-function-growth=1000 -fno-common
-fno-omit-frame-pointer -mcmmodel=kernel -mno-red-zone -mfpmath=387
-mno-sse -mno-sse2 -mno-mmx -mno-3dnow -msoft-float
-fno-asynchronous-unwind-tables -ffreestanding -Wall
-Wredundant-decls -Wnested-externs -Wstrict-prototypes
-Wmissing-prototypes
-Wpointer-arith -Winline -Wcast-qual -Wundef -Wno-pointer-sign
-fformat-extensions -c fuse_subr.c
ld -d -warn-common -r -d -o fuse.ko fuse_main.o fuse_msg.o
fuse_dev.o fuse_vfsops.o fuse_vnops.o fuse_io.o fuse_subr.o

:> export_syms
```

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```
awk -f /usr/src2/sys/conf/kmod_syms.awk fuse.ko export_syms | xargs
-J% objcopy % fuse.ko
objcopy --strip-debug fuse.ko
==> mount_fusefs (all)
Warning: Object directory not changed from original
/usr/ports.workdir/FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod
/work/fuse4bsd-0.3.9-pre1/mount_fusefs cc -O2 -fno-strict-aliasing
-pipe -march=nocona -march=nocona -I/usr/src/sbin/mount -I./include
-c mount_fusefs.c
mount_fusefs.c:50:21: error: mntopts.h: No such file or directory
```

I wonder why SRC_BASE is set in port's Makefile and not used at all. Try adding
MAKE_ENV+= MOUNT=\${SRC_BASE}/sbin/mount
to port's Makefile after checks for sbin/mount existence.

```
mount_fusefs.c:57: error: array type has incomplete element type
mount_fusefs.c:73: error: 'MOPT_STDOPTS' undeclared here (not in a
function)
mount_fusefs.c:74: error: 'MOPT_END' undeclared here (not in a
function) mount_fusefs.c: In function 'main':
mount_fusefs.c:138: error: 'getmnt_silent' undeclared (first use in
this function)
mount_fusefs.c:138: error: (Each undeclared identifier is reported
only once
mount_fusefs.c:138: error: for each function it appears in.)
mount_fusefs.c:181: error: dereferencing pointer to incomplete type
mount_fusefs.c:181: error: increment of pointer to unknown structure
mount_fusefs.c:181: error: arithmetic on pointer to an incomplete
type mount_fusefs.c:184: error: dereferencing pointer to incomplete
type mount_fusefs.c:186: error: dereferencing pointer to incomplete
type mount_fusefs.c:188: error: dereferencing pointer to incomplete
type mount_fusefs.c:259: error: dereferencing pointer to incomplete
type mount_fusefs.c:259: error: increment of pointer to unknown
structure mount_fusefs.c:259: error: arithmetic on pointer to an
incomplete type mount_fusefs.c:260: error: dereferencing pointer to
incomplete type mount_fusefs.c:265: error: dereferencing pointer to
incomplete type mount_fusefs.c:274: error: dereferencing pointer to
incomplete type mount_fusefs.c:277: error: dereferencing pointer to
incomplete type mount_fusefs.c:283: error: dereferencing pointer to
incomplete type mount_fusefs.c:285: error: dereferencing pointer to
incomplete type mount_fusefs.c:288: error: dereferencing pointer to
incomplete type mount_fusefs.c: In function 'usage':
mount_fusefs.c:425: error: dereferencing pointer to incomplete type
mount_fusefs.c:425: error: increment of pointer to unknown structure
mount_fusefs.c:425: error: arithmetic on pointer to an incomplete
type mount_fusefs.c:426: error: dereferencing pointer to incomplete
type *** Error code 1
```

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Stop in
/usr/ports.workdir/FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod
/work/fuse4bsd-0.3.9-pre1/mount_fusefs. *** Error code 1

Stop in
/usr/ports.workdir/FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod
/work/fuse4bsd-0.3.9-pre1. *** Error code 1

Stop in /FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod.
*** Error code 1

Stop in /FreeBSD/FreeBSD-current/ports/sysutils/fusefs-kmod.

Only slightly better:

Yuri

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