kmod-11 测试

THU-12-1 下载编译源码包

下载源码包

查看下载文件大小 3458574字节

```
$ ls -l
total 3380
-rw-rw-r-- 1 akaedu akaedu 3458574 Nov 8 2012 kmod-11.tar.gz
$
```

解压源码包

```
$ tar zxf kmod-11.tar.gz
$ ls
kmod-11 kmod-11.tar.gz
```

查看解压后文件数量 421个

```
$ cd kmod-11
$ find * | wc -l
421
$
```

编译项目源码

查看当前目录下文件数量 确认已经生成 Makefile

```
$ find * | wc -l
467
$ ls -l Makefile
-rw-rw-r-- 1 akaedu akaedu 91795 Jun 18 01:15 Makefile
$ make
```

查看tools目录下生成的可执行文件 \$ 1s ./tools/ -1 | grep ``x'' lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 depmod -> kmod-nolib lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 insmod -> kmod-nolib - rwxrwxr-x l akaedu akaedu 8352 Jun 18 01:17 kmod -rwxrwxr-x l akaedu akaedu 468079 Jun 18 01:17 kmod-nolib lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 lsmod -> kmod-nolib lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 modinfo -> kmod-nolib lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 modprobe -> kmod-nolib lrwxrwxrwx l akaedu akaedu 10 Jun 18 01:17 rmmod -> kmod-nolib

安装可执行文件 \$ make install 权限不够,需要 sudo

```
$ sudo make install
[sudo] password for akaedu:
Making install in .
/bin/mkdir -p '/usr/lib'
 /bin/bash ./libtool
                         --mode=install /usr/bin/install -
   libkmod/libkmod.la '/usr/lib'
libtool: install: /usr/bin/install -c libkmod/.libs/libkmod.so.
2.2.1 /usr/lib/libkmod.so.2.2.1
libtool: install: (cd /usr/lib && { ln -s -f libkmod.so.
2.2.1 libkmod.so.2 || { rm -f libkmod.so.2 && ln -s libkmod.so.
2.2.1 libkmod.so.2; }; })
libtool: install: (cd /usr/lib && { ln -s -f libkmod.so.
2.2.1 libkmod.so || { rm -f libkmod.so && ln -s libkmod.so.
2.2.1 libkmod.so; }; })
libtool:
          install: / usr/ bin/ install - c libkmod/.libs/
libkmod.lai /usr/lib/libkmod.la
libtool: finish: PATH="/usr/local/sbin:/usr/local/bin:/usr/
sbin:/usr/bin:/sbin:/sbin" ldconfig -n /usr/lib
Libraries have been installed in:
  /usr/lib
```

If you ever happen to want to link against installed libraries in a given directory, LIBDIR, you must either use libtool, and specify the full pathname of the library, or use the `-LLIBDIR' flag during linking and do at least one of the following:

- add LIBDIR to the `LD_LIBRARY_PATH' environment variable during execution
- add LIBDIR to the `LD_RUN_PATH' environment variable during linking
- use the `-Wl,-rpath -Wl,LIBDIR' linker flag
- have your system administrator add LIBDIR to `/etc/
 ld.so.conf'

See any operating system documentation about shared libraries for more information, such as the ld(1) and ld.so(8) manual pages.

```
/bin/mkdir -p '/usr/bin'
/bin/bash ./libtool --m
```

/bin/bash ./libtool --mode=install /usr/bin/install -c tools/kmod '/usr/bin'

libtool: install: /usr/bin/install -c tools/.libs/kmod /usr/

```
bin/kmod
make --no-print-directory install-exec-hook
if test "/usr/lib" != "/usr/lib"; then \
        /bin/mkdir -p /usr/lib && \
        so img name=$(readlink /usr/lib/libkmod.so) && \
        so_img_rel_target_prefix=$(echo /usr/lib | sed 's,\(^/
\\\)[^/][^/]*,..,g') && \
       ln -sf $so_img_rel_target_prefix/usr/lib/$so_img_name /
usr/lib/libkmod.so && \
        mv /usr/lib/libkmod.so.* /usr/lib; \
 /bin/mkdir -p '/usr/include'
 /usr/bin/install -c -m 644 libkmod/libkmod.h '/usr/include'
 /bin/mkdir -p '/usr/lib/pkgconfig'
 /usr/bin/install -c -m 644 libkmod/libkmod.pc '/usr/lib/
pkgconfig'
Making install in libkmod/docs
make[2]: Nothing to be done for `install-exec-am'.
make[2]: Nothing to be done for `install-data-am'.
Making install in man
make[2]: Nothing to be done for `install-exec-am'.
/bin/mkdir -p '/usr/share/man/man5'
/usr/bin/install -c -m 644 depmod.d.5 modprobe.d.5 modules.dep.
5 modules.dep.bin.5 '/usr/share/man/man5'
/bin/mkdir -p '/usr/share/man/man8'
 /usr/bin/install -c -m 644 depmod.8 insmod.8 lsmod.8 rmmod.
8 modprobe.8 modinfo.8 '/usr/share/man/man8'
```

THU-12-2 测试 insmod 命令

编写测试用内核模块源码 hello.c

```
$ cat hello.c

#include <linux/module.h>
#include <linux/kernel.h>

MODULE_AUTHOR("AKAEDU");
```

```
MODULE_DESCRIPTION("module example ");
MODULE_LICENSE("GPL");
int global = 100;
int __init
akae_init (void)
    int local = 200;
    printk ("Hello, akaedu\n");
   printk(".text = %p\n", akae_init);
    printk(".data = %p\n", &global);
   printk(".stack = %p\n", &local);
   return 0;
}
void __exit
akae_exit (void)
    int local = 300;
   printk ("module exit\n");
   printk(".text = %p\n", akae_exit);
    printk(".data = %p\n", &global);
   printk(".stack = %p\n", &local);
   return ;
}
module_init(akae_init);
module_exit(akae_exit);
```

编写测试用内核模块的 Makefile 文件

```
$ cat Makefile
obj-m := hello.o
```

```
KDIR := /usr/src/linux-headers-3.2.0-29-generic-pae/
all:
    make -C $(KDIR) SUBDIRS=$(PWD) modules

clean:
    rm -rf *.o *.ko *.mod.* *.cmd
    rm -rf .*
```

编译内核模块 hello.ko

```
$ cd hello-module/
$ make
                / usr/ src/ linux- headers-3.2.0-29- generic-
make
             SUBDIRS=/home/akaedu/Github/comment-subs/hello-
pae/
module
        modules
make[1]: Entering directory `/usr/src/linux-headers-3.2.0-29-
generic-pae'
 CC [M] /home/akaedu/Github/comment-subs/hello-module/hello.o
  Building modules, stage 2.
  MODPOST 1 modules
   CC
               /home/akaedu/Github/comment-subs/hello-module/
hello.mod.o
 LD [M] /home/akaedu/Github/comment-subs/hello-module/hello.ko
make[1]: Leaving directory `/usr/src/linux-headers-3.2.0-29-
generic-pae'
$
```

使用测试用工具 insmod 插入内核模块

```
$ sudo ./kmod-11/tools/insmod hello-module/hello.ko
```

查看插入内核模块后的打印结果

```
$ lsmod | grep hello
hello
                       12415 0
$ dmesg | tail
[350775.859640] usb 2-2.1: USB disconnect, device number 14
[350777.611134] Bluetooth: hci0 urb c7304180 submission failed
[350778.217886]
                      usb
                                 2-2.1:
                                               new
                                                          full-
speed USB device number 15 using uhci hcd
[352048.604051] usb 2-2.1: USB disconnect, device number 15
[352048.630829] Bluetooth: hci0 urb dd3d3000 submission failed
[352049.254135]
                      usb
                                 2-2.1:
                                               new
                                                          full-
speed USB device number 16 using uhci_hcd
[352111.505217] Hello, akaedu
[352111.505223] .text = e0844000
[352111.505225] .data = e0c03000
[352111.505227] .stack = df6e3f54
```

重复插入同样的内核模块系统会报错

```
$ sudo ./kmod-11/tools/insmod hello-module/hello.ko
insmod: ERROR: could not insert module hello-module/
hello.ko: File exists
$ lsmod | grep hello
hello 12415 0
```

THU-12-3 测试 rmmod 命令

使用测试用工具 rmmod 卸载内核模块

```
$ sudo ./kmod-11/tools/rmmod hello-module/hello.ko
$ rmmod hello .ko
```

查看卸载内核模块后的打印结果

```
$ lsmod | grep hello
$ dmesg | tail
[352048.630829] Bluetooth: hci0 urb dd3d3000 submission failed
[352049.254135]
                       usb
                                  2-2.1:
                                               new
                                                          full-
speed USB device number 16 using uhci_hcd
[352111.505217] Hello, akaedu
[352111.505223] .text = e0844000
[352111.505225] .data = e0c03000
[352111.505227] .stack = df6e3f54
[352365.795618] module exit
[352365.795624] .text = e0c01000
[352365.795626] .data = e0c03000
[352365.795628] .stack = dd197f40
```

THU-12-4 测试 1smod 命令

1smod 命令运行

不加参数,直接运行 1smod ,可以显示出当前在内核中的模块情况。

```
$ ./kmod-11/tools/lsmod
Module
                       Size Used by
nls_iso8859_1
                      12617 0
                      12751 0
nls_cp437
                      39646 0
usb_storage
                     638208 0
btrfs
zlib_deflate
                      26622 1 btrfs
libcrc32c
                      12543 1 btrfs
                      78131 0
ufs
qnx4
                      13309 0
                      83507 0
hfsplus
hfs
                      49479 0
                      31418 0
minix
ntfs
                     100171 0
```

```
vfat
                       17308 0
msdos
                       17132 0
                       55605 2 msdos, vfat
fat
jfs
                      175085 0
xfs
                      747494 0
                      230896 0
reiserfs
ext2
                       67987 0
                       17885 0
usblp
                      102138 2
vmwgfx
                       65344 1 vmwgfx
ttm
drm
                      197692 3 ttm, vmwgfx
                       23535 0
acpiphp
vmw_balloon
                       12700 0
psmouse
                       72919 0
                       13027 0
serio_raw
                       17912 2
btusb
joydev
                       17393 0
rfcomm
                       38139 0
                       17830 2
bnep
                      158438 13 bnep,rfcomm,btusb
bluetooth
ppdev
                      12849 0
nfsd
                      229850 13
nfs
                      307376 0
                      78804 2 nfs,nfsd
lockd
fscache
                       50642 1 nfs
i2c_piix4
                       13093 0
                       39597 2 nfs,nfsd
auth_rpcgss
nfs_acl
                       12771 2 nfs,nfsd
                  205647 19 nfs_acl,auth_rpcgss,lockd,nfs,nfsd
sunrpc
                       32114 1
parport_pc
                       32325 0
shpchp
                       13077 0
mac_hid
                       24819 4
snd_ens1371
gameport
                       15060 1 snd_ens1371
snd_rawmidi
                       25424 1 snd_ens1371
snd_seq_device
                       14172 1 snd_rawmidi
snd_ac97_codec
                      106082 1 snd_ens1371
ac97_bus
                       12642 1 snd_ac97_codec
                       80845 3 snd_ac97_codec,snd_ens1371
snd_pcm
                       28931 2 snd_pcm
snd_timer
snd
                62064 12 snd_timer, snd_pcm, snd_ac97_codec, snd_seq_device, snd_rawmidi, s
soundcore
                       14635 1 snd
```

snd_page_alloc	14108	1 snd_pcm
lp	17455	0
parport	40930	<pre>3 lp,parport_pc,ppdev</pre>
pcnet32	41110	0
usbhid	41906	0
hid	77367	1 usbhid
mptspi	22474	2
mptscsih	39530	1 mptspi
mptbase	96852	2 mptscsih,mptspi
floppy	60310	0
vmw_pvscsi	18334	0
vmxnet3	44924	0
\$		

1smod 命令运行参数

该命令不支持带参数,因此后面如果跟某个模块名称,只会显示 usage ,不会显示模块的信息。

```
$ ./kmod-11/tools/lsmod ufs
Usage: ./kmod-11/tools/lsmod
$
```

THU-12-5 测试 modinfo 命令

modinfo 命令运行参数

对于没有依赖关系的单个 .ko 内核模块,使用 modinfo 可以直接显示出模块的信息。

\$./kmod-11/tools/modinfo ./hello-module/hello.ko

filename: ./hello-module/hello.ko

license: GPL

description: module example

author: AKAEDU

srcversion: C928237C5C93794C5E0EF9C

depends:

vermagic: 3.2.0-29- generic-

pae SMP mod_unload modversions 686

\$

modinfo 命令检查依赖关系

对于有依赖关系的单个 .ko 内核模块,使用 modinfo 可以显示出模块的依赖关系信息depends,同时也可以显示出模块加载时的参数信息parm。这个参数信息是在编译内核模块的时候,源码中通过用 MODULE_PARM_DESC() 宏来指定的。

\$ modinfo /lib/modules/3.2.0-29-generic-pae/kernel/fs/nfs/

nfs.ko

filename: /lib/modules/3.2.0-29-generic-pae/kernel/fs/nfs/

nfs.ko

license: GPL

author: Olaf Kirch <okir@monad.swb.de>

srcversion: BB0605CB0AF0BA47415CBEC

depends: fscache,sunrpc,lockd,auth_rpcgss,nfs_acl

intree: Y

vermagic: 3.2.0-29- generic-

pae SMP mod_unload modversions 686
parm: callback_tcpport:portnr

parm: cache_getent:Path to the client cache upcall program (string)

parm: cache_getent_timeout:Timeout (in seconds) after which the cache upcall is ass

parm: enable_ino64:bool

parm: nfs4_disable_idmapping:Turn off NFSv4 idmapping when using 'sec=sys' (bool)

\$

查看别名信息 alias

对于可以使用别名的内核模块,也可以用它的别名 alias 来查看模块信息。别名是在 /lib/modules/3.2.0-29-generic-pae/modules.alias 描述的模块名称的简单形式。

```
$ head /lib/modules/3.2.0-29-generic-pae/modules.alias
# Aliases extracted from modules themselves.
alias pci:v00008086d00003422sv*sd*bc*sc*i* mce_xeon75xx
alias char-major-10-134 apm
alias devname:cpu/microcode microcode
alias char-major-10-184 microcode
alias aes-asm aes_i586
alias aes aes_i586
alias twofish-asm twofish_i586
alias twofish twofish_i586
alias salsa20-asm salsa20_i586
```

但是在这个文件中,别名为 aes 的模块,还有很多个,通过 grep ``alias aes'' 可以看出一共有3个别名都是 aes 的模块,分别是 aes_i586, aesni_intel, padlock_aes。

```
$ cat / lib/ modules/ 3.2.0-29- generic- pae/
modules.alias | grep "alias aes"
alias aes-asm aes_i586
alias aes aes_i586
alias aes aesni_intel
alias aes padlock_aes
```

使用 modinfo 查看各个依赖模块信息

通过 modinfo 来查看 aes 这个别名所对应的模块信息,可以看到这3个模块所对应的模块文件 crypto/aes-i586.ko,aesni-intel.ko,padlockaes.ko 的详细信息。

\$./kmod-11/tools/modinfo aes
filename: /lib/modules/3.2.0-29-generic-pae/kernel/arch/
x86/crypto/aes-i586.ko
alias: aes-asm

alias: aes license: GPL

description: Rijndael (AES) Cipher Algorithm, asm optimized

srcversion: 24373C7FF739526E8AAF1B0

depends:

intree: Y

vermagic: 3.2.0-29- generic-

pae SMP mod_unload modversions 686

filename: /lib/modules/3.2.0-29-generic-pae/kernel/arch/

x86/crypto/aesni-intel.ko

alias: aes license: GPL

description: Rijndael (AES) Cipher Algorithm, Intel AES-

NI instructions optimized

srcversion: E0B859CB1FF480D0B70F6F2

depends: cryptd,aes-i586

intree: Y

vermagic: 3.2.0-29- generic-

pae SMP mod_unload modversions 686

filename: /lib/modules/3.2.0-29-generic-pae/kernel/drivers/

author: Michal Ludvig

license: GPL

description: VIA PadLock AES algorithm support

srcversion: 6842B20FF8E68314ED45103

depends:

intree: Y

vermagic: 3.2.0-29- generic-

pae SMP mod_unload modversions 686

Ф.

THU-12-6 测试 depmod 命令

depmod 命令运行时调试图

\$./kmod-11/tools/depmod | wc -l

```
3529
$ vi ./kmod-11/tools/depmod.c
     output_deps
                              stdout
1790 static int output_deps(struct depmod *depmod, FILE *out)
1791 {
1792
             size_t i;
1793
1794
          fprintf(stdout, "total count %d", depmod->modules.count);
1795 ...
                   const char *p = mod_get_compressed_path(mod);
1798
1799
                     size_t j, n_deps;
1800
1801
                     if (mod->dep_loop) {
1802
                           DBG("Ignored %s due dependency loops
n'', p);
1803
                              continue;
                     }
1804
1805
1806
                     fprintf(out, "%s:", p);
                     fprintf(stdout, "%s:", p);
1807
$ make -C kmod-11
make[1]: Entering directory `/home/akaedu/Github/comment-subs/
make --no-print-directory all-recursive
Making all in .
  CC
           tools/depmod.o
  CCLD
           tools/kmod
  CCLD
           tools/kmod-nolib
Making all in libkmod/docs
make[3]: Nothing to be done for `all'.
Making all in man
make[3]: Nothing to be done for `all'.
make[1]: Leaving directory `/home/akaedu/Github/comment-subs/
kmod-11'
$ sudo ./kmod-11/tools/depmod | head
total count 3529
kernel/arch/x86/kernel/cpu/mcheck/mce-xeon75xx.ko:
kernel/arch/x86/kernel/cpu/mcheck/mce-inject.ko:
```

```
kernel/arch/x86/kernel/msr.ko:
kernel/arch/x86/kernel/apm.ko:
kernel/arch/x86/kernel/microcode.ko:
kernel/arch/x86/crypto/aes-i586.ko:
kernel/arch/x86/crypto/ twofish- i586.ko: kernel/ crypto/
twofish_common.ko
kernel/arch/x86/crypto/salsa20-i586.ko:
kernel/arch/x86/crypto/aesni-intel.ko: kernel/arch/x86/crypto/
aes-i586.ko kernel/crypto/cryptd.ko
$
```

THU-12-7 测试 depmod 命令 modprobe 命令运行时调试图

```
$
$ sudo ./kmod-11/tools/modprobe nfs
name = nfs
           kernel/fs/nfs/nfs.ko: kernel/fs/nfs_common/
line
nfs_acl.ko kernel/net/sunrpc/auth_gss/auth_rpcgss.ko kernel/fs/
fscache/fscache.ko kernel/fs/lockd/lockd.ko kernel/net/sunrpc/
sunrpc.ko
p = kernel/fs/nfs_common/nfs_acl.ko
p = kernel/net/sunrpc/auth_gss/auth_rpcgss.ko
p = kernel/fs/fscache/fscache.ko
-----
p = kernel/fs/lockd/lockd.ko
p = kernel/net/sunrpc/sunrpc.ko
   ______
$
```

THU-12-8 编译生成 testsuite 命令集

```
test- new- module
                   testsuite/ test- modprobe
                                               testsuite/ test-
blacklist testsuite/test-dependencies testsuite/test-depmod
 CC
           testsuite/uname.lo
 CCLD
           testsuite/uname.la
 CC
           testsuite/path.lo
 CCLD
           testsuite/path.la
           testsuite/init_module.lo
 CC
 CC
           testsuite/mkdir.lo
           testsuite/init_module.la
 CCLD
 CC
           testsuite/delete_module.lo
 CCLD
           testsuite/delete_module.la
 CC
           testsuite/testsuite_libtestsuite_la-testsuite.lo
 CCLD
           testsuite/libtestsuite.la
           testsuite/testsuite_test_init-test-init.o
 CC
 CCLD
           testsuite/test-init
           testsuite/testsuite test testsuite-test-testsuite.o
 CC
 CCLD
           testsuite/test-testsuite
           testsuite/testsuite test loaded-test-loaded.o
 CC
           testsuite/test-loaded
 CCLD
 CC
           testsuite/testsuite test modinfo-test-modinfo.o
 CCLD
           testsuite/test-modinfo
 CC
           testsuite/testsuite_test_alias-test-alias.o
 CCLD
           testsuite/test-alias
         testsuite/testsuite_test_new_module-test-new-module.o
 CC
 CCLD
           testsuite/test-new-module
 CC
           testsuite/testsuite_test_modprobe-test-modprobe.o
 CCLD
           testsuite/test-modprobe
 CC
           testsuite/testsuite_test_blacklist-test-blacklist.o
 CCLD
           testsuite/test-blacklist
   CC
                   testsuite/testsuite_test_dependencies-test-
dependencies.o
 CCLD
           testsuite/test-dependencies
 CC
           testsuite/testsuite_test_depmod-test-depmod.o
 CCI.D
           testsuite/test-depmod
make --no-print-directory check-TESTS
TESTSUITE: running test_initlib, in forked context
TESTSUITE: 'test_initlib' [20196] exited with return code 0
TESTSUITE: PASSED: test initlib
TESTSUITE: running test_insert, in forked context
TESTSUITE: 'test_insert' [20197] exited with return code 0
TESTSUITE: PASSED: test_insert
TESTSUITE: running test_remove, in forked context
```

```
TESTSUITE: 'test_remove' [20198] exited with return code 0
TESTSUITE: PASSED: test remove
PASS: testsuite/test-init
TESTSUITE: running testsuite_uname, in forked context
TRAP uname(): missing export TESTSUITE UNAME R?
TESTSUITE: 'testsuite_uname' [20202] exited with return code 0
TESTSUITE: PASSED: testsuite uname
TESTSUITE: running testsuite_rootfs_fopen, in forked context
TESTSUITE: 'testsuite_rootfs_fopen' [20203] exited with return code 0
TESTSUITE: PASSED: testsuite_rootfs_fopen
TESTSUITE: running testsuite_rootfs_open, in forked context
TESTSUITE: 'testsuite_rootfs_open' [20204] exited with return code 0
TESTSUITE: PASSED: testsuite_rootfs_open
TESTSUITE: running testsuite_rootfs_stat_access, in forked context
TESTSUITE: 'testsuite_rootfs_stat_access' [20205] exited with return code 0
TESTSUITE: PASSED: testsuite_rootfs_stat_access
TESTSUITE: running testsuite_rootfs_opendir, in forked context
TESTSUITE: 'testsuite_rootfs_opendir' [20206] exited with return code 0
TESTSUITE: PASSED: testsuite_rootfs_opendir
PASS: testsuite/test-testsuite
TESTSUITE: running loaded_1, in forked context
TESTSUITE: 'loaded_1' [20210] exited with return code 0
TESTSUITE: PASSED: loaded 1
PASS: testsuite/test-loaded
TESTSUITE: running modinfo_jonsmodules, in forked context
TESTSUITE: 'modinfo_jonsmodules' [20214] exited with return code 0
TESTSUITE: PASSED: modinfo_jonsmodules
PASS: testsuite/test-modinfo
TESTSUITE: running alias_1, in forked context
TESTSUITE: 'alias_1' [20218] exited with return code 0
TESTSUITE: PASSED: alias 1
PASS: testsuite/test-alias
TESTSUITE: running from_name, in forked context
TESTSUITE: 'from_name' [20222] exited with return code 0
TESTSUITE: PASSED: from_name
TESTSUITE: running from_alias, in forked context
TESTSUITE: 'from_alias' [20223] exited with return code 0
TESTSUITE: PASSED: from alias
PASS: testsuite/test-new-module
TESTSUITE: running modprobe_show_depends, in forked context
TESTSUITE: 'modprobe_show_depends' [20227] exited with return code 0
TESTSUITE: PASSED: modprobe_show_depends
```

```
TESTSUITE: running modprobe_show_depends2, in forked context
TESTSUITE: 'modprobe_show_depends2' [20228] exited with return code 0
TESTSUITE: PASSED: modprobe show depends2
TESTSUITE: running modprobe_builtin, in forked context
TESTSUITE: 'modprobe_builtin' [20229] exited with return code 0
TESTSUITE: PASSED: modprobe_builtin
TESTSUITE: running modprobe_softdep_loop, in forked context
TESTSUITE: 'modprobe_softdep_loop' [20230] exited with return code 0
TESTSUITE: PASSED: modprobe_softdep_loop
TESTSUITE: running modprobe_install_cmd_loop, in forked context
TESTSUITE: ERR: Test 'modprobe_install_cmd_loop' timed out, killing 20231
TESTSUITE: ERR: 'modprobe_install_cmd_loop' [20231] terminated by signal 9 (Killed)
FAIL: testsuite/test-modprobe
TESTSUITE: running blacklist_1, in forked context
TESTSUITE: 'blacklist_1' [20283] exited with return code 0
TESTSUITE: PASSED: blacklist_1
PASS: testsuite/test-blacklist
TESTSUITE: running test_dependencies, in forked context
TRAP uname(): missing export TESTSUITE_UNAME_R?
TESTSUITE: 'test_dependencies' [20287] exited with return code 0
TESTSUITE: PASSED: test_dependencies
PASS: testsuite/test-dependencies
TESTSUITE: running depmod_modules_order_for_compressed, in forked context
TESTSUITE: 'depmod_modules_order_for_compressed' [20291] exited with return code 0
TESTSUITE: ERR: sizes do not match /home/akaedu/Github/test-
kmod-11/kmod-11/testsuite/rootfs/test-depmod/modules-order-
compressed/lib/modules/3.5.4-1-ARCH/correct-modules.alias /
home/ akaedu/ Github/ test- kmod-11/ kmod-11/ testsuite/ rootfs/
test-depmod/modules-order-compressed/lib/modules/3.5.4-1-ARCH/
modules.alias
TESTSUITE: ERR: FAILED: exit ok but outputs do not match: depmod modules_order_for_compres
FAIL: testsuite/test-depmod
_____
2 of 10 tests failed
Please report to linux-modules@vger.kernel.org
_____
make[2]: *** [check-TESTS] Error 1
make[1]: *** [check-am] Error 2
make: *** [check-recursive] Error 1
$ Killed
```