

## [2.4 patch] disallow modular BINFMT\_ELF (fwd)

*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-01/7748.html>

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**From:** Adrian Bunk (*bunk\_at\_fs.tum.de*)

**Date:** 01/30/04

Date: Fri, 30 Jan 2004 20:43:23 +0100  
To: Marcelo Tosatti <marcelo.tosatti@cyclades.com>

Hi Marcelo,

the patch forwarded below is still required in 2.4.25-pre8.

Please apply  
Adrian

----- Forwarded message from Adrian Bunk <bunk@fs.tum.de> -----

Date: Wed, 7 Jan 2004 20:47:59 +0100  
From: Adrian Bunk <bunk@fs.tum.de>  
To: Marcelo Tosatti <marcelo.tosatti@cyclades.com>  
Cc: linux-kernel@vger.kernel.org  
Subject: [2.4 patch] disallow modular BINFMT\_ELF

Hi Marcelo,

with no 2.4 kernel BINFMT\_ELF=m actually worked, you always get a

<-- snip -->

```
depmod: *** Unresolved symbols in /lib/modules/2.4.25-pre4/kernel/fs/binfmt_elf.o
depmod: smp_num_siblings
depmod: put_files_struct
depmod: steal_locks
```

<-- snip -->

Since BINFMT\_ELF=m is a very unusual case, the patch below simply disallows modular BINFMT\_ELF.

A similar patch I sent was already accepted into 2.6.

diffstat output:

```
Documentation/Configure.help | 6 -----
arch/alpha/config.in | 2 +-

```

Linux-Kernel: [2.4 patch] disallow modular BINFMT\_ELF (fwd)

```
arch/arm/config.in | 2 +-
arch/cris/config.in | 2 +-
arch/i386/config.in | 2 +-
arch/ia64/config.in | 2 +-
arch/m68k/config.in | 2 +-
arch/mips/config-shared.in | 2 +-
arch/parisc/config.in | 2 +-
arch/s390/config.in | 2 +-
arch/s390x/config.in | 2 +-
arch/sh/config.in | 2 +-
arch/sh64/config.in | 2 +-
arch/sparc/config.in | 2 +-
arch/sparc64/config.in | 2 +-
arch/x86_64/config.in | 2 +-
16 files changed, 15 insertions(+), 21 deletions(-)
```

Please apply  
Adrian

```
--- linux-2.4.25-pre4-modular/arch/sh64/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/sh64/config.in 2004-01-07 20:20:14.000000000 +0100
@@ -152,7 +152,7 @@
     "ELF CONFIG_KCORE_ELF \
     A.OUT CONFIG_KCORE_AOUT" ELF
fi
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC

bool 'Select task to kill on out of memory condition' CONFIG_OOM_KILLER
--- linux-2.4.25-pre4-modular/arch/x86_64/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/x86_64/config.in 2004-01-07 20:20:26.000000000 +0100
@@ -106,7 +106,7 @@
     define_bool CONFIG_KCORE_ELF y
fi
#tristate 'Kernel support for a.out binaries' CONFIG_BINFMT_AOUT
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC

bool 'Power Management support' CONFIG_PM
--- linux-2.4.25-pre4-modular/arch/i386/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/i386/config.in 2004-01-07 20:21:07.000000000 +0100
@@ -326,7 +326,7 @@
     A.OUT CONFIG_KCORE_AOUT" ELF
fi
tristate 'Kernel support for a.out binaries' CONFIG_BINFMT_AOUT
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
bool 'Select task to kill on out of memory condition' CONFIG_OOM_KILLER
```

## Linux-Kernel: [2.4 patch] disallow modular BINFMT\_ELF (fwd)

```
--- linux-2.4.25-pre4-modular/arch/alpha/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/alpha/config.in 2004-01-07 20:21:26.000000000 +0100
@@ -314,7 +314,7 @@
     bool 'OSF/1 v4 readv/writev compatibility' CONFIG_OSF4_COMPAT
 fi

-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
tristate 'Kernel support for Linux/Intel ELF binaries' CONFIG_BINFMT_EM86
source drivers/parport/Config.in
--- linux-2.4.25-pre4-modular/arch/sparc/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/sparc/config.in 2004-01-07 20:21:38.000000000 +0100
@@ -73,7 +73,7 @@
     define_bool CONFIG_KCORE_ELF y
 fi
tristate 'Kernel support for a.out binaries' CONFIG_BINFMT_AOUT
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
bool 'SunOS binary emulation' CONFIG_SUNOS_EMUL
bool 'Select task to kill on out of memory condition' CONFIG_OOM_KILLER
--- linux-2.4.25-pre4-modular/arch/mips/config-shared.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/mips/config-shared.in 2004-01-07 20:21:57.000000000 +0100
@@ -930,7 +930,7 @@
     define_bool CONFIG_KCORE_ELF y
     define_bool CONFIG_KCORE_AOUT n
     define_bool CONFIG_BINFMT_AOUT n
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
dep_bool 'Kernel support for Linux/MIPS 32-bit binary compatibility' CONFIG_MIPS32_COMPAT
$CONFIG_MIPS64
dep_bool 'Kernel support for o32 binaries' CONFIG_MIPS32_O32 $CONFIG_MIPS32_COMPAT
dep_bool 'Kernel support for n32 binaries' CONFIG_MIPS32_N32 $CONFIG_MIPS32_COMPAT
--- linux-2.4.25-pre4-modular/arch/m68k/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/m68k/config.in 2004-01-07 20:22:10.000000000 +0100
@@ -98,7 +98,7 @@
     A.OUT CONFIG_KCORE_AOUT" ELF
 fi
tristate 'Kernel support for a.out binaries' CONFIG_BINFMT_AOUT
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC

if [ "$CONFIG_AMIGA" = "y" ]; then
--- linux-2.4.25-pre4-modular/arch/sparc64/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/sparc64/config.in 2004-01-07 20:22:20.000000000 +0100
@@ -76,7 +76,7 @@
     tristate 'Kernel support for 32-bit ELF binaries' CONFIG_BINFMT_ELF32
     bool 'Kernel support for 32-bit (ie. SunOS) a.out binaries' CONFIG_BINFMT_AOUT32
```

Linux-Kernel: [2.4 patch] disallow modular BINFMT\_ELF (fwd)

```
fi
-tristate 'Kernel support for 64-bit ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for 64-bit ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
bool 'SunOS binary emulation' CONFIG_SUNOS_EMUL
if [ "$CONFIG_EXPERIMENTAL" = "y" ]; then
--- linux-2.4.25-pre4-modular/arch/arm/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/arm/config.in 2004-01-07 20:22:40.000000000 +0100
@@ -498,7 +498,7 @@
    "ELF CONFIG_KCORE_ELF \
      A.OUT CONFIG_KCORE_AOUT" ELF
tristate 'Kernel support for a.out binaries' CONFIG_BINFMT_AOUT
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
dep_bool 'Power Management support (experimental)' CONFIG_PM $CONFIG_EXPERIMENTAL
dep_tristate 'RISC OS personality' CONFIG_ARTHUR $CONFIG_CPU_32
--- linux-2.4.25-pre4-modular/arch/sh/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/sh/config.in 2004-01-07 20:22:49.000000000 +0100
@@ -282,7 +282,7 @@
    "ELF CONFIG_KCORE_ELF \
      A.OUT CONFIG_KCORE_AOUT" ELF
fi

-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC

bool 'Select task to kill on out of memory condition' CONFIG_OOM_KILLER
--- linux-2.4.25-pre4-modular/arch/ia64/config.in.old 2004-01-07 20:19:34.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/ia64/config.in 2004-01-07 20:23:06.000000000 +0100
@@ -99,7 +99,7 @@
bool 'System V IPC' CONFIG_SYSVIPC
bool 'BSD Process Accounting' CONFIG_BSD_PROCESS_ACCT
bool 'Sysctl support' CONFIG_SYSCTL
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC

if [ "$CONFIG_IA64_HP_SIM" = "n" ]; then
--- linux-2.4.25-pre4-modular/arch/s390/config.in.old 2004-01-07 20:19:35.000000000 +0100
+++ linux-2.4.25-pre4-modular/arch/s390/config.in 2004-01-07 20:23:20.000000000 +0100
@@ -57,7 +57,7 @@
bool 'BSD Process Accounting' CONFIG_BSD_PROCESS_ACCT
bool 'Sysctl support' CONFIG_SYSCTL
define_bool CONFIG_KCORE_ELF y
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
bool 'Show crashed user process info' CONFIG_PROCESS_DEBUG
bool 'Pseudo page fault support' CONFIG_PFAULT
--- linux-2.4.25-pre4-modular/arch/parisc/config.in.old 2004-01-07 20:19:35.000000000 +0100
```

## Linux-Kernel: [2.4 patch] disallow modular BINFMT\_ELF (fwd)

```
+++ linux-2.4.25-pre4-modular/arch/parisc/config.in 2004-01-07 20:23:30.000000000 +0100
@@ -88,7 +88,7 @@
```

```
bool 'BSD Process Accounting' CONFIG_BSD_PROCESS_ACCT
bool 'Sysctl support' CONFIG_SYSCTL
define_bool CONFIG_KCORE_ELF y
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for SOM binaries' CONFIG_BINFMT_SOM
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
```

```
--- linux-2.4.25-pre4-modular/arch/cris/config.in.old 2004-01-07 20:19:35.000000000 +0100
```

```
+++ linux-2.4.25-pre4-modular/arch/cris/config.in 2004-01-07 20:23:44.000000000 +0100
```

```
@@ -30,7 +30,7 @@
```

```
bool 'BSD Process Accounting' CONFIG_BSD_PROCESS_ACCT
bool 'Sysctl support' CONFIG_SYSCTL
```

```
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
```

```
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
```

```
string 'Kernel command line' CONFIG_ETRAX_CMDLINE "root=/dev/mtdblock3"
```

```
--- linux-2.4.25-pre4-modular/arch/s390x/config.in.old 2004-01-07 20:19:35.000000000 +0100
```

```
+++ linux-2.4.25-pre4-modular/arch/s390x/config.in 2004-01-07 20:23:55.000000000 +0100
```

```
@@ -60,7 +60,7 @@
```

```
bool 'BSD Process Accounting' CONFIG_BSD_PROCESS_ACCT
bool 'Sysctl support' CONFIG_SYSCTL
define_bool CONFIG_KCORE_ELF y
-tristate 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
+bool 'Kernel support for ELF binaries' CONFIG_BINFMT_ELF
tristate 'Kernel support for MISC binaries' CONFIG_BINFMT_MISC
bool 'Show crashed user process info' CONFIG_PROCESS_DEBUG
bool 'Pseudo page fault support' CONFIG_PFAULT
```

```
--- linux-2.4.25-pre4-modular/Documentation/Configure.help.old 2004-01-07 20:19:35.000000000
+0100
```

```
+++ linux-2.4.25-pre4-modular/Documentation/Configure.help 2004-01-07 20:24:18.000000000 +0100
```

```
@@ -4553,12 +4553,6 @@
```

```
Id.so (check the file <file:Documentation/Changes> for location and
latest version).
```

- If you want to compile this as a module (= code which can be
- inserted in and removed from the running kernel whenever you want),
- say M here and read <file:Documentation/modules.txt>. The module
- will be called binfmt\_elf.o. Saying M or N here is dangerous because
- some crucial programs on your system might be in ELF format.

-

Kernel support for a.out binaries

CONFIG\_BINFMT\_AOUT

A.out (Assembler.OUTput) is a set of formats for libraries and

-

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Linux-Kernel: [2.4 patch] disallow modular BINFMT\_ELF (fwd)

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