
Subject: [PATCH] futher {ip,ip6,arp}_tables unification
Posted by [Mishin Dmitry](#) on Fri, 17 Mar 2006 11:46:19 GMT
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This patch moves {ip,ip6,arp}t_entry_{match,target} definitions to x_tables.h. This move simplifies code and future compatibility fixes.

Signed-off-by: Dmitry Mishin <dim@openvz.org>
Acked-off-by: Kirill Korotaev <dev@openvz.org>

--
Thanks,
Dmitry.

```
diff --git a/include/linux/netfilter/x_tables.h b/include/linux/netfilter/x_tables.h
index 46a0f97..ad72a4f 100644
--- a/include/linux/netfilter/x_tables.h
+++ b/include/linux/netfilter/x_tables.h
@@ -4,6 +4,62 @@
 #define XT_FUNCTION_MAXNAMELEN 30
 #define XT_TABLE_MAXNAMELEN 32

+struct xt_entry_match
+{
+ union {
+ struct {
+ u_int16_t match_size;
+
+ /* Used by userspace */
+ char name[XT_FUNCTION_MAXNAMELEN-1];
+
+ u_int8_t revision;
+ } user;
+ struct {
+ u_int16_t match_size;
+
+ /* Used inside the kernel */
+ struct xt_match *match;
+ } kernel;
+
+ /* Total length */
+ u_int16_t match_size;
+ } u;
+
+ unsigned char data[0];
+};
+
+struct xt_entry_target
```

```

+{
+ union {
+ struct {
+ u_int16_t target_size;
+
+ /* Used by userspace */
+ char name[XT_FUNCTION_MAXNAMELEN-1];
+
+ u_int8_t revision;
+ } user;
+ struct {
+ u_int16_t target_size;
+
+ /* Used inside the kernel */
+ struct xt_target *target;
+ } kernel;
+
+ /* Total length */
+ u_int16_t target_size;
+ } u;
+
+ unsigned char data[0];
+};
+
+struct xt_standard_target
+{
+ struct xt_entry_target target;
+ int verdict;
+};
+
+/* The argument to IPT_SO_GET_REVISION_*. Returns highest revision
+ * kernel supports, if >= revision. */
+struct xt_get_revision
diff --git a/include/linux/netfilter_arp/arp_tables.h b/include/linux/netfilter_arp/arp_tables.h
index fd21796..3f89d2f 100644
--- a/include/linux/netfilter_arp/arp_tables.h
+++ b/include/linux/netfilter_arp/arp_tables.h
@@ -65,35 +65,8 @@ struct arpt_arp {
    u_int16_t invflags;
};

-struct arpt_entry_target
-{-
- union {
- struct {
- u_int16_t target_size;
-
- /* Used by userspace */

```

```

- char name[ARPT_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t target_size;
-
- /* Used inside the kernel */
- struct arpt_target *target;
- } kernel;
-
- /* Total length */
- u_int16_t target_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct arpt_standard_target
- {
- struct arpt_entry_target target;
- int verdict;
-};
+#define arpt_entry_target xt_entry_target
+#define arpt_standard_target xt_standard_target

/* Values for "flag" field in struct arpt_ip (general arp structure).
 * No flags defined yet.
diff --git a/include/linux/netfilter_ipv4/ip_tables.h b/include/linux/netfilter_ipv4/ip_tables.h
index 76ba24b..56eebc6 100644
--- a/include/linux/netfilter_ipv4/ip_tables.h
+++ b/include/linux/netfilter_ipv4/ip_tables.h
@@ -52,61 +52,9 @@ struct ipt_ip {
    u_int8_t invflags;
};

-struct ipt_entry_match
- {
- union {
- struct {
- u_int16_t match_size;
-
- /* Used by userspace */
- char name[IPT_FUNCTION_MAXNAMELEN-1];
-
- u_int8_t revision;
- } user;
- struct {
- u_int16_t match_size;

```

```

-
- /* Used inside the kernel */
- struct ipt_match *match;
- } kernel;
-
- /* Total length */
- u_int16_t match_size;
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- unsigned char data[0];
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-struct ipt_entry_target
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- } u;
-
- unsigned char data[0];
-};
-
-struct ipt_standard_target
-{
- struct ipt_entry_target target;
- int verdict;
-};
+#define ipt_entry_match xt_entry_match
+#define ipt_entry_target xt_entry_target
+#define ipt_standard_target xt_standard_target

#define ipt_counters xt_counters

```

```

diff --git a/include/linux/netfilter_ipv6/ip6_tables.h b/include/linux/netfilter_ipv6/ip6_tables.h
index f249b57..45dc603 100644
--- a/include/linux/netfilter_ipv6/ip6_tables.h
+++ b/include/linux/netfilter_ipv6/ip6_tables.h
@@ -56,60 +56,9 @@ struct ip6t_ip6 {
    u_int8_t invflags;
};

-/* FIXME: If alignment in kernel different from userspace? --RR */
-struct ip6t_entry_match
- {
- union {
- struct {
- u_int16_t match_size;
-
- /* Used by userspace */
- char name[IP6T_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t match_size;
-
- /* Used inside the kernel */
- struct ip6t_match *match;
- } kernel;
-
- /* Total length */
- u_int16_t match_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ip6t_entry_target
- {
- union {
- struct {
- u_int16_t target_size;
-
- /* Used by userspace */
- char name[IP6T_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t target_size;
-
- /* Used inside the kernel */
- struct ip6t_target *target;

```

```

- } kernel;
-
- /* Total length */
- u_int16_t target_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ip6t_standard_target
-{
- struct ip6t_entry_target target;
- int verdict;
-};
+#define ip6t_entry_match xt_entry_match
+#define ip6t_entry_target xt_entry_target
+#define ip6t_standard_target xt_standard_target

#define ip6t_counters xt_counters

```

File Attachments

1) [diff-ms-xt-entry-20060317](#), downloaded 394 times

Subject: Re: [PATCH] futher {ip,ip6,arp}_tables unification
Posted by [Mishin Dmitry](#) on Fri, 17 Mar 2006 16:02:33 GMT
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Forgot required tc_ipt.h modification. Corrected.

On Friday 17 March 2006 14:46, Dmitry Mishin wrote:

```

> This patch moves {ip,ip6,arp}_t_entry_{match,target} definitions to
> x_tables.h. This move simplifies code and future compatibility fixes.
>
> Signed-off-by: Dmitry Mishin <dim@openvz.org>
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+  u_int8_t revision;
+ } user;
+ struct {
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+  /* Used inside the kernel */
+  struct xt_target *target;
+ } kernel;
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+ unsigned char data[0];
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    u_int16_t invflags;
};

-struct arpt_entry_target
- {
- union {
- struct {
- u_int16_t target_size;
-
- /* Used by userspace */
- char name[ARPT_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t target_size;
-
- /* Used inside the kernel */
- struct arpt_target *target;
- } kernel;
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- /* Total length */
- u_int16_t target_size;
- } u;
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- struct arpt_entry_target target;
- int verdict;

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```

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+#define arpt_entry_target xt_entry_target
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- union {
- struct {
- u_int16_t match_size;
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- /* Used by userspace */
- char name[IPT_FUNCTION_MAXNAMELEN-1];
-
- u_int8_t revision;
- } user;
- struct {
- u_int16_t match_size;
-
- /* Used inside the kernel */
- struct ipt_match *match;
- } kernel;
-
- /* Total length */
- u_int16_t match_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ipt_entry_target
- {
- union {
- struct {
- u_int16_t target_size;
-
- /* Used by userspace */
- char name[IPT_FUNCTION_MAXNAMELEN-1];
-

```

```

- u_int8_t revision;
- } user;
- struct {
- u_int16_t target_size;
-
- /* Used inside the kernel */
- struct ipt_target *target;
- } kernel;
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- /* Total length */
- u_int16_t target_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ipt_standard_target
-{
- struct ipt_entry_target target;
- int verdict;
-};
+#define ipt_entry_match xt_entry_match
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+++ b/include/linux/netfilter_ipv6/ip6_tables.h
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    u_int8_t invflags;
};

-/* FIXME: If alignment in kernel different from userspace? --RR */
-struct ip6t_entry_match
-{
- union {
- struct {
- u_int16_t match_size;
-
- /* Used by userspace */
- char name[IP6T_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t match_size;

```

```

-
- /* Used inside the kernel */
- struct ip6t_match *match;
- } kernel;
-
- /* Total length */
- u_int16_t match_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ip6t_entry_target
- {
- union {
- struct {
- u_int16_t target_size;
-
- /* Used by userspace */
- char name[IP6T_FUNCTION_MAXNAMELEN-1];
- u_int8_t revision;
- } user;
- struct {
- u_int16_t target_size;
-
- /* Used inside the kernel */
- struct ip6t_target *target;
- } kernel;
-
- /* Total length */
- u_int16_t target_size;
- } u;
-
- unsigned char data[0];
-};
-
-struct ip6t_standard_target
- {
- struct ip6t_entry_target target;
- int verdict;
-};
+#define ip6t_entry_match xt_entry_match
+#define ip6t_entry_target xt_entry_target
+#define ip6t_standard_target xt_standard_target

#define ip6t_counters xt_counters

diff --git a/include/net/tc_act/tc_ipt.h b/include/net/tc_act/tc_ipt.h

```

```
index 02ecceb..cb37ad0 100644
--- a/include/net/tc_act/tc_ipt.h
+++ b/include/net/tc_act/tc_ipt.h
@@ -3,14 +3,14 @@
```

```
#include <net/act_api.h>
```

```
-struct ipt_entry_target;
+struct xt_entry_target;
```

```
struct tcf_ipt
{
    tca_gen(ipt);
    u32 hook;
    char *tname;
- struct ipt_entry_target *t;
+ struct xt_entry_target *t;
};
```

```
#endif
```

File Attachments

1) [diff-ms-xt-entry-20060317](#), downloaded 473 times

Subject: Re: [PATCH] futher {ip,ip6,arp}_tables unification
Posted by [Patrick McHardy](#) on Mon, 20 Mar 2006 14:37:05 GMT

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Dmitry Mishin wrote:

> This patch moves {ip,ip6,arp}t_entry_{match,target} definitions to
> x_tables.h. This move simplifies code and future compatibility fixes.

Applied, thanks. I've fixed up the ipt action which didn't compile anymore.

Subject: Re: [PATCH] futher {ip,ip6,arp}_tables unification
Posted by [Patrick McHardy](#) on Mon, 20 Mar 2006 14:39:22 GMT

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Dmitry Mishin wrote:

> Forgot required tc_ipt.h modification. Corrected.

Missed this mail. Your patch is better, so I backed out my version and took this one instead.
