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;
- } u;
-
- unsigned char data[0];
-};
-
-struct ipt_entry_target
-{
- union {
-  struct {
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-   /* Used by userspace */
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-   u_int8_t revision;
-  } user;
-  struct {
-   u_int16_t target_size;
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-   /* Used inside the kernel */
-   struct ipt_target *target;
-  } kernel;
-
-  /* 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
+#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 461 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>
> Acked-off-by: Kirill Korotaev <dev@openvz.org>

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Thanks,
Dmitry.

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+  } 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
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--- 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.
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@@ -52,61 +52,9 @@ struct ipt_ip {
  u_int8_t invflags;
 };

-struct ipt_entry_match
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- 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;
- } 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;
-
-  /* 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
+#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

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 546 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.
