
Subject: [PATCH 0/3] [RAW]: proc output cleanups.
Posted by [den](#) on Thu, 31 Jan 2008 11:32:52 GMT
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yesterday Adrian Bunk noticed, that the commit

commit 42a73808ed4f30b739eb52bcbb33a02fe62ceef5
Author: Pavel Emelyanov <xemul@openvz.org>
Date: Mon Nov 19 22:38:33 2007 -0800

is somewhat strange. Basically, the commit is obviously wrong as the content of the /proc/net/raw6 is incorrect due to it.

This series of patches fixes original problem and slightly cleanups the code around.

Signed-off-by: Denis V. Lunev <den@openvz.org>

Subject: [PATCH 1/3] [RAW]: Family check in the /proc/net/raw[6] is extra.
Posted by [den](#) on Thu, 31 Jan 2008 11:34:52 GMT
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Different hashtables are used for IPv6 and IPv4 raw sockets, so no need to check the socket family in the iterator over hashtables. Clean this out.

Signed-off-by: Denis V. Lunev <den@openvz.org>

```
include/net/raw.h | 4 +---
net/ipv4/raw.c    | 12 ++++-----
net/ipv6/raw.c    | 2 +-
3 files changed, 6 insertions(+), 12 deletions(-)
```

```
diff --git a/include/net/raw.h b/include/net/raw.h
index cca81d8..c7ea7a2 100644
```

```
--- a/include/net/raw.h
```

```
+++ b/include/net/raw.h
```

```
@@ -41,7 +41,6 @@ extern void raw_proc_exit(void);
```

```
struct raw_iter_state {
    struct seq_net_private p;
    int bucket;
- unsigned short family;
    struct raw_hashinfo *h;
};
```

```
@@ -49,8 +48,7 @@ struct raw_iter_state {
void *raw_seq_start(struct seq_file *seq, loff_t *pos);
void *raw_seq_next(struct seq_file *seq, void *v, loff_t *pos);
```

```

void raw_seq_stop(struct seq_file *seq, void *v);
-int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h,
- unsigned short family);
+int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h);

#endif

diff --git a/net/ipv4/raw.c b/net/ipv4/raw.c
index f863c3d..507cbfe 100644
--- a/net/ipv4/raw.c
+++ b/net/ipv4/raw.c
@@ -862,8 +862,7 @@ static struct sock *raw_get_first(struct seq_file *seq)
     struct hlist_node *node;

     sk_for_each(sk, node, &state->h->ht[state->bucket])
-    if (sk->sk_net == state->p.net &&
-        sk->sk_family == state->family)
+    if (sk->sk_net == state->p.net)
         goto found;
     }
     sk = NULL;
@@ -879,8 +878,7 @@ static struct sock *raw_get_next(struct seq_file *seq, struct sock *sk)
     sk = sk_next(sk);
try_again:
    ;
- } while (sk && sk->sk_net != state->p.net &&
-         sk->sk_family != state->family);
+ } while (sk && sk->sk_net != state->p.net);

    if (!sk && ++state->bucket < RAW_HTABLE_SIZE) {
        sk = sk_head(&state->h->ht[state->bucket]);
@@ -974,8 +972,7 @@ static const struct seq_operations raw_seq_ops = {
    .show = raw_seq_show,
};

-int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h,
- unsigned short family)
+int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h)
{
    int err;
    struct raw_iter_state *i;
@@ -987,14 +984,13 @@ int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo
*h,

    i = raw_seq_private((struct seq_file *)file->private_data);
    i->h = h;
- i->family = family;
    return 0;

```

```

}
EXPORT_SYMBOL_GPL(raw_seq_open);

static int raw_v4_seq_open(struct inode *inode, struct file *file)
{
- return raw_seq_open(inode, file, &raw_v4_hashinfo, PF_INET);
+ return raw_seq_open(inode, file, &raw_v4_hashinfo);
}

static const struct file_operations raw_seq_fops = {
diff --git a/net/ipv6/raw.c b/net/ipv6/raw.c
index d61c63d..a2cf499 100644
--- a/net/ipv6/raw.c
+++ b/net/ipv6/raw.c
@@ -1262,7 +1262,7 @@ static const struct seq_operations raw6_seq_ops = {

static int raw6_seq_open(struct inode *inode, struct file *file)
{
- return raw_seq_open(inode, file, &raw_v6_hashinfo, PF_INET6);
+ return raw_seq_open(inode, file, &raw_v6_hashinfo);
}

static const struct file_operations raw6_seq_fops = {
--
1.5.3.rc5

```

Subject: [PATCH 2/3] [RAW]: Cleanup IPv4 raw_seq_show.

Posted by [den](#) on Thu, 31 Jan 2008 11:34:53 GMT

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There is no need to use 128 bytes on the stack at all. Clean the code in the IPv6 style.

Signed-off-by: Denis V. Lunev <den@openvz.org>

```

net/ipv4/raw.c | 24 ++++++-----
1 files changed, 7 insertions(+), 17 deletions(-)

```

```

diff --git a/net/ipv4/raw.c b/net/ipv4/raw.c
index 507cbfe..830f19e 100644
--- a/net/ipv4/raw.c
+++ b/net/ipv4/raw.c
@@ -927,7 +927,7 @@ void raw_seq_stop(struct seq_file *seq, void *v)
}
EXPORT_SYMBOL_GPL(raw_seq_stop);

-static __inline__ char *get_raw_sock(struct sock *sp, char *tmpbuf, int i)

```

```

+static void raw_sock_seq_show(struct seq_file *seq, struct sock *sp, int i)
{
    struct inet_sock *inet = inet_sk(sp);
    __be32 dest = inet->daddr,
@@ -935,33 +935,23 @@ static __inline__ char *get_raw_sock(struct sock *sp, char *tmpbuf, int
i)
    __u16 destp = 0,
        srcp = inet->num;

- sprintf(tmpbuf, "%4d: %08X:%04X %08X:%04X"
+ seq_printf(seq, "%4d: %08X:%04X %08X:%04X"
    " %02X %08X:%08X %02X:%08IX %08X %5d %8d %lu %d %p %d",
    i, src, srcp, dest, destp, sp->sk_state,
    atomic_read(&sp->sk_wmem_alloc),
    atomic_read(&sp->sk_rmem_alloc),
    0, 0L, 0, sock_i_uid(sp), 0, sock_i_ino(sp),
    atomic_read(&sp->sk_refcnt), sp, atomic_read(&sp->sk_drops));
- return tmpbuf;
}

-#define TMPSZ 128
-
static int raw_seq_show(struct seq_file *seq, void *v)
{
- char tmpbuf[TMPSZ+1];
-
    if (v == SEQ_START_TOKEN)
- seq_printf(seq, "%-*s\n", TMPSZ-1,
-     " sl local_address rem_address  st tx_queue "
-     "rx_queue tr tm->when retrnsmt  uid  timeout "
-     "inode  drops");
- else {
-     struct raw_iter_state *state = raw_seq_private(seq);
-
-     seq_printf(seq, "%-*s\n", TMPSZ-1,
-         get_raw_sock(v, tmpbuf, state->bucket));
- }
+ seq_printf(seq, " sl local_address rem_address  st tx_queue "
+     "rx_queue tr tm->when retrnsmt  uid  timeout "
+     "inode  drops\n");
+ else
+ raw_sock_seq_show(seq, v, raw_seq_private(seq)->bucket);
    return 0;
}

--
1.5.3.rc5

```

Subject: [PATCH 3/3] [RAW]: Wrong content of the /proc/net/raw6.

Posted by [den](#) on Thu, 31 Jan 2008 11:34:54 GMT

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The address of IPv6 raw sockets was shown in the wrong format, from IPv4 ones.

The problem has been introduced by the

commit 42a73808ed4f30b739eb52bcbb33a02fe62ceef5

Author: Pavel Emelyanov <xemul@openvz.org>

Date: Mon Nov 19 22:38:33 2007 -0800

Thanks to Adrian Bunk who originally noticed the problem.

Signed-off-by: Denis V. Lunev <den@openvz.org>

```
include/net/raw.h | 3 ++-
net/ipv4/raw.c    | 8 ++++----
net/ipv6/raw.c    | 2 +-
3 files changed, 7 insertions(+), 6 deletions(-)
```

diff --git a/include/net/raw.h b/include/net/raw.h

index c7ea7a2..1828f81 100644

--- a/include/net/raw.h

+++ b/include/net/raw.h

```
@@ -48,7 +48,8 @@ struct raw_iter_state {
void *raw_seq_start(struct seq_file *seq, loff_t *pos);
void *raw_seq_next(struct seq_file *seq, void *v, loff_t *pos);
void raw_seq_stop(struct seq_file *seq, void *v);
-int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h);
+int raw_seq_open(struct inode *ino, struct file *file,
+ struct raw_hashinfo *h, const struct seq_operations *ops);
```

```
#endif
```

diff --git a/net/ipv4/raw.c b/net/ipv4/raw.c

index 830f19e..a3002fe 100644

--- a/net/ipv4/raw.c

+++ b/net/ipv4/raw.c

```
@@ -962,13 +962,13 @@ static const struct seq_operations raw_seq_ops = {
    .show = raw_seq_show,
};
```

```
-int raw_seq_open(struct inode *ino, struct file *file, struct raw_hashinfo *h)
```

```
+int raw_seq_open(struct inode *ino, struct file *file,
```

```
+ struct raw_hashinfo *h, const struct seq_operations *ops)
```

```
{
    int err;
    struct raw_iter_state *i;
```

```
- err = seq_open_net(ino, file, &raw_seq_ops,
```

```

- sizeof(struct raw_iter_state));
+ err = seq_open_net(ino, file, ops, sizeof(struct raw_iter_state));
  if (err < 0)
    return err;

@@ -980,7 +980,7 @@ EXPORT_SYMBOL_GPL(raw_seq_open);

static int raw_v4_seq_open(struct inode *inode, struct file *file)
{
- return raw_seq_open(inode, file, &raw_v4_hashinfo);
+ return raw_seq_open(inode, file, &raw_v4_hashinfo, &raw_seq_ops);
}

static const struct file_operations raw_seq_fops = {
diff --git a/net/ipv6/raw.c b/net/ipv6/raw.c
index a2cf499..8897ccf 100644
--- a/net/ipv6/raw.c
+++ b/net/ipv6/raw.c
@@ -1262,7 +1262,7 @@ static const struct seq_operations raw6_seq_ops = {

static int raw6_seq_open(struct inode *inode, struct file *file)
{
- return raw_seq_open(inode, file, &raw_v6_hashinfo);
+ return raw_seq_open(inode, file, &raw_v6_hashinfo, &raw6_seq_ops);
}

static const struct file_operations raw6_seq_fops = {
--
1.5.3.rc5

```

Subject: Re: [PATCH 0/3] [RAW]: proc output cleanups.

Posted by [davem](#) on Thu, 31 Jan 2008 11:49:10 GMT

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From: "Denis V. Lunev" <den@sw.ru>

Date: Thu, 31 Jan 2008 14:32:52 +0300

```

> yesterday Adrian Bunk noticed, that the commit
>
> commit 42a73808ed4f30b739eb52bcbb33a02fe62ceef5
> Author: Pavel Emelyanov <xemul@openvz.org>
> Date: Mon Nov 19 22:38:33 2007 -0800
>
> is somewhat strange. Basically, the commit is obviously wrong as the
> content of the /proc/net/raw6 is incorrect due to it.
>
> This series of patches fixes original problem and slightly cleanups the

```

> code around.
>
> Signed-off-by: Denis V. Lunev <den@openvz.org>

All applied, thanks a lot!
