
Subject: [PATCH] unaligned access in sk_run_filter()
Posted by [Kirill Korotaev](#) on Mon, 17 Apr 2006 11:05:12 GMT
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[PATCH] unaligned access in sk_run_filter()

This patch fixes unaligned access warnings noticed on IA64
in sk_run_filter(). 'ptr' can be unaligned.

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--- ./net/core/filter.c.ve125 2006-04-05 15:11:24.000000000 +0400

+++ ./net/core/filter.c 2006-04-05 15:55:33.000000000 +0400

@ @ -34,6 +34,7 @ @

#include <linux/timer.h>

#include <asm/system.h>

#include <asm/uaccess.h>

+ #include <asm/unaligned.h>

#include <linux/filter.h>

/* No hurry in this branch */

@ @ -177,7 +178,7 @ @ unsigned int sk_run_filter(struct sk_buf

load_w:

```
ptr = load_pointer(skb, k, 4, &tmp);
if (ptr != NULL) {
-  A = ntohl(*(u32 *)ptr);
+  A = ntohl(get_unaligned((u32 *)ptr));
  continue;
}
```

break;

@ @ -186,7 +187,7 @ @ load_w:

load_h:

```
ptr = load_pointer(skb, k, 2, &tmp);
if (ptr != NULL) {
-  A = ntohs(*(u16 *)ptr);
+  A = ntohs(get_unaligned((u16 *)ptr));
  continue;
}
```

break;