
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;
```
