

[Patch?] padlock-aes.c used forward inline function

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-12/6247.html>

From: Adam J. Richter (adam_at_yggdrasil.com)

Date: 12/30/04

Date: Thu, 30 Dec 2004 22:59:57 +0800

To: davem@davemloft.com, jmorris@redhat.com, michal@logix.cz

gcc-3.4.3 and gcc-3.4.1 do not currently support forward declaration of inline functions, as is used in linux-2.6.10-rc2/drivers/crypto/padlock-aes.c.

The function is trivial, so it is better to inline it by defining it earlier than it would be to un-inline it. Here is a proposed patch. If it looks okay, I would appreciate it if someone would bless it and forward it downstream.

Adam J. Richter \ /
adam@yggdrasil.com | g g d r a s i l

--- linux-2.6.10-bk2/drivers/crypto/padlock-aes.c 2004-12-30 17:04:16.000000000 +0800

+++ linux/drivers/crypto/padlock-aes.c 2004-12-30 22:57:45.000000000 +0800

@@ -58,8 +58,6 @@

#define AES_EXTENDED_KEY_SIZE 64 /* in uint32_t units */

#define AES_EXTENDED_KEY_SIZE_B (AES_EXTENDED_KEY_SIZE * sizeof(uint32_t))

-static inline int aes_hw_extkey_available (uint8_t key_len);

-

```
struct aes_ctx {
    uint32_t e_data[AES_EXTENDED_KEY_SIZE+4];
    uint32_t d_data[AES_EXTENDED_KEY_SIZE+4];
@@ -68,6 +66,19 @@
    int key_length;
};
```

+/* Tells whether the ACE is capable to generate

+ the extended key for a given key_len. */

+static inline int

+aes_hw_extkey_available(uint8_t key_len)

+{

+ /* TODO: We should check the actual CPU model/stepping

+ as it's possible that the capability will be

Linux-Kernel: [Patch?] padlock-aes.c used forward inline function

```
+ added in the next CPU revisions. */
+ if (key_len == 16)
+ return 1;
+ return 0;
+ }
+
+ /* ===== Key management routines ===== */

static inline uint32_t
@@ -356,19 +367,6 @@
    return 0;
}

-/* Tells whether the ACE is capable to generate
- the extended key for a given key_len. */
-static inline int
-aes_hw_extkey_available(uint8_t key_len)
-{
- /* TODO: We should check the actual CPU model/stepping
- as it's possible that the capability will be
- added in the next CPU revisions. */
- if (key_len == 16)
- return 1;
- return 0;
- }
-
- /* ===== Encryption/decryption routines ===== */

/* This is the real call to PadLock. */
-
```

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in the body of a message to majordomo@vger.kernel.org

More majordomo info at <http://vger.kernel.org/majordomo-info.html>

Please read the FAQ at <http://www.tux.org/lkml/>