

Re: APs from the Kernel Summit run Linux

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-08/8033.html>

From: Vojtech Pavlik (vojtech_at_suse.cz)

Date: 08/31/05

Date: Wed, 31 Aug 2005 22:32:11 +0200

To: Mark Lord <mlord@pobox.com>, LKML <linux-kernel@vger.kernel.org>

On Wed, Aug 31, 2005 at 08:53:19PM +0100, Russell King wrote:

> *On Wed, Aug 31, 2005 at 12:55:12PM -0400, Mark Lord wrote:*

> > *I'll try loading the works into another ARM*

> > *system I have here, and see (1) if it runs as-is,*

> > *and (2) what the disassembly shows.*

>

> *You can identify ARM code quite readily – look for a large number of*

> *32-bit words naturally aligned and grouped together whose top nibble*

> *is 14 – ie 0xE.....*

>

> *The top nibble is the conditional execution field, and 14 is "always".*

Didn't find that. Anyway:

The firmware has four parts. Each starts at a nice round number and is padded to the next one with zeros.

0x000000–0x0ffff 560 kB

0x100000–0x15ffff 316 kB

0x160000–0x1bffff 331 kB

0x1bffc0–0x1bffff 64 bytes ASCII identificatoin

Each of the first three large parts starts with this sequence of bytes:

00 10 00 00 03 00 00 00 ED

The first and third parts contain a repeating 7-byte sequence

81 40 20 10 08 04 02

near the beginning, while part 2 is padded with zeroes in the same place.

There are no strings except in the last part. Most likely it's some kind of compressed data, although the repeating parts would appear in regular compressed blobs.

Linux-Kernel: Re: APs from the Kernel Summit run Linux

Anyone, does this ring a bell?

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