

coreboot - Bug #141

GRUB payload hangs in HP Elitebooks

09/19/2017 01:33 AM - Iru Cai

Status:	New	Start date:	09/19/2017
Priority:	Normal	Due date:	
Assignee:	Iru Cai	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>There may be some problem when initializing the keyboard controller, but SeaBIOS payload works fine. Using GRUB payload directly or chainload GRUB payload with SeaBIOS will both hang the system.</p> <p>I modified GRUB and find it hangs in <code>set_scancodes(void)</code>, when calling the first <code>write_mode</code>. After <code>grub_outb (mode, KEYBOARD_REG_DATA);</code>, the <code>keyboard_controller_wait_until_ready()</code> function goes to an infinite loop.</p> <pre>write_mode (int mode) { unsigned i; for (i = 0; i < GRUB_AT_TRIES; i++) { grub_uint8_t ack; keyboard_controller_wait_until_ready (); grub_outb (0xf0, KEYBOARD_REG_DATA); keyboard_controller_wait_until_ready (); grub_outb (mode, KEYBOARD_REG_DATA); keyboard_controller_wait_until_ready (); ack = wait_ack (); if (ack == GRUB_AT_NACK) continue; if (ack == GRUB_AT_ACK) break; return 0; } return (i != GRUB_AT_TRIES); }</pre>			