

# Re: [RFC] ELF Relocatable x86 and x86\_64 bzImages

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-08/msg00449.html>

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  - *Date:* Tue, 1 Aug 2006 16:40:23 -0400
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On Tue, Aug 01, 2006 at 04:58:49AM -0600, Eric W. Biederman wrote:

Currently there are 33 patches in my tree to do this.

The weirdest symptom I have had so far is that page faults did not trigger the early exception handler on x86\_64 (instead I got a reboot).

There is one outstanding issue where I am probably requiring too much alignment on the arch/i386 kernel.

Can anyone find anything else?

I am running into compilation failure on x86\_64.

```
SYSMAP System.map
SYSMAP .tmp_System.map
AS arch/x86_64/boot/bootsect.o
In file included from include/asm/bitops.h:9,
from include/linux/bitops.h:10,
from include/linux/kernel.h:16,
from include/asm/system.h:5,
from include/asm/processor.h:19,
from include/asm/elf.h:11,
from include/linux/elf.h:8,
from arch/x86_64/boot/bootsect.S:20:
include/asm/alternative.h:73: error: syntax error in macro parameter list
include/asm/alternative.h:88: error: syntax error in macro parameter list
include/asm/alternative.h:127: error: syntax error in macro parameter list
In file included from include/asm/system.h:5,
from include/asm/processor.h:19,
from include/asm/elf.h:11,
from include/linux/elf.h:8,
from arch/x86_64/boot/bootsect.S:20:
include/linux/kernel.h:34: warning: "ALIGN" redefined
```

Re: [RFC] ELF Relocatable x86 and x86\_64 bzImages

In file included from include/linux/kernel.h:12,  
from include/asm/system.h:5,  
from include/asm/processor.h:19,  
from include/asm/elf.h:11,  
from include/linux/elf.h:8,  
from arch/x86\_64/boot/bootsect.S:20:  
include/linux/linkage.h:27: warning: this is the location of the previous definition  
In file included from include/asm/system.h:5,  
from include/asm/processor.h:19,  
from include/asm/elf.h:11,  
from include/linux/elf.h:8,  
from arch/x86\_64/boot/bootsect.S:20:  
include/linux/kernel.h:216: error: syntax error in macro parameter list  
include/linux/kernel.h:220: error: syntax error in macro parameter list  
In file included from include/linux/sched.h:55,  
from include/asm/compat.h:9,  
from include/asm/elf.h:12,  
from include/linux/elf.h:8,