Subject: Re: [PATCH] IA64, sparc: local DoS with corrupted ELFs Posted by fernando on Wed, 06 Sep 2006 23:23:11 GMT

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On Wed, 2006-09-06 at 13:20 -0700, Linus Torvalds wrote:
> On Mon, 4 Sep 2006, Kirill Korotaev wrote:
> >
> > +#ifdef KERNEL
>> +#define arch mmap check ia64 mmap check
> > +#ifndef ASSEMBLY
>> +int ia64 mmap check(unsigned long addr, unsigned long len,
>> + unsigned long flags);
> > +#endif
> > +#endif
> Btw, is there some reason for the __ASSEMBLY__ check?
> I'm not seeing any kernel users that could care, a quick
> git grep 'mman\.h' -- '*.[sS]'
> doesn't trigger anything, and the other header files that include this
> seem to all either be mman.h themselves, or have things like structure
> declarations etc that wouldn't work for any non-C source anyway.
>
> But maybe I missed some.
> I'd rather not have more of those '#ifndef ASSEMBLY ' than necessary
The problem is that "asm/mman.h" is being included from entry. S indirectly
through "asm/pgtable.h" (see code snips below).
* arch/ia64/kernel/entry.S:
#include <asm/pgtable.h>
* include/asm-ia64/pgtable.h:
#include <asm/mman.h>
* include/asm-ia64/mman.h
#ifdef __KERNEL_
#define arch mmap check ia64 map check rgn
int ia64 map check rgn(unsigned long addr, unsigned long len,
```

```
unsigned long flags);
#endif
```

Without this fix compilation is broken:

gcc -Wp,-MD,arch/ia64/kernel/.entry.o.d -nostdinc -isystem /usr/lib/gcc/ia64-linux-gnu/4.1.2/include -D__KERNEL__ -linclude -include include/linux/autoconf.h -DHAVE WORKING TEXT ALIGN -DHAVE MODEL SMALL ATTRIBUTE -DHAVE SERIALIZE DIRECTIVE -D ASSEMBLY -mconstant-gp -c -o arch/ia64/kernel/entry.o arch/ia64/kernel/entry.S include/asm/mman.h: Assembler messages: include/asm/mman.h:13: Error: Unknown opcode `int ia64_map_check_rgn(unsigned long addr, unsigned long len, ' include/asm/mman.h:14: Error: Unknown opcode `unsigned long flags)' make[1]: *** [arch/ia64/kernel/entry.o] Error 1 make: *** [arch/ia64/kernel] Error 2

Regards,

Fernando