

[Patch 1/5] Fix genksyms handling of DEFINE_PER_CPU(struct foo_s *, bar);

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-12/msg06310.html>

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 - *Date:* Tue, 20 Dec 2005 19:45:50 -0600
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This is a one-line change to parse.y. It results in rebuilding the scripts/genksyms/*_shipped files. Those are the next four patches.

When a .c file contains:

```
DEFINE_PER_CPU(struct foo_s *, bar);
```

the .cpp output looks like:

```
__attribute__((__section__(".data.percpu"))) __typeof__(struct foo_s *) per_cpu__bar;
```

With the existing parse.y, the value inside the paranthesis of __typeof__() does not evaluate as a type_specifier and therefore per_cpu__bar does not get assigned a type for genksyms which results in the EXPORT_PER_CPU_SYMBOL() not generating a CRC value.

I have compared the Modules.symvers with and without this patch and for ia64's defconfig, the only change is:

Before 0x00000000 per_cpu____sn_nodepda vmlinux

After 0x9d3f3faa per_cpu____sn_nodepda vmlinux

per_cpu____sn_nodepda was the original source of my problems.

Signed-off-by: Robin Holt <holt@xxxxxxx>

Index: linux-2.6/scripts/genksyms/parse.y

```
--- linux-2.6.orig/scripts/genksyms/parse.y 2005-12-20 14:24:41.736350197 -0600
```

```
+++ linux-2.6/scripts/genksyms/parse.y 2005-12-20 14:24:55.843371218 -0600
```

```
@@ -197,6 +197,7 @@ storage_class_specifier:
```

```
type_specifier:
```

```
simple_type_specifier
```

```
| cvar_qualifier
```

```
+ | TYPEOF_KEYW '(' decl_specifier_seq '*' )'
```

```
| TYPEOF_KEYW '(' decl_specifier_seq )'
```

```
/* References to s/u/e's defined elsewhere. Rearrange things
```

```
-
```

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- *Follow-Ups:*

- ◆ [\[Patch 5/5\] Rebuild scripts/genksyms/parse.h shipped following parse.y change.](#)
 ◇ From: Robin Holt
- ◆ [\[Patch 2/5\] Rebuild scripts/genksyms/keywords.c shipped following parse.y change.](#)
 ◇ From: Robin Holt
- ◆ [\[Patch 3/5\] Rebuild scripts/genksyms/lex.c shipped following parse.y change.](#)
 ◇ From: Robin Holt
- ◆ [\[Patch 2/5\] Rebuild scripts/genksyms/keywords.c shipped following parse.y change.](#)
 ◇ From: Robin Holt

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