

[PATCH 0/9] x86-64 put current in r10

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-11/9631.html>

From: Benjamin LaHaise (bcr1_at_kvack.org)

Date: 11/30/05

Date: Tue, 29 Nov 2005 23:21:18 -0500
To: Andi Kleen <ak@suse.de>

Hello Andi,

The following emails contain the patches to convert x86-64 to store current in r10 (also at <http://www.kvack.org/~bcr1/patches/v2.6.15-rc3/>). This provides a significant amount of code savings (~43KB) over the current use of the per cpu data area. I also tested using r15, but that generated code that was larger than that generated with r10. This code seems to be working well for me now (it stands up to 32 and 64 bit processes and ptrace users) and would be a good candidate for further exposure.

-ben

```
arch/i386/oprofile/nmi_int.c | 1
arch/x86_64/Makefile | 1
arch/x86_64/crypto/aes-x86_64-asm.S | 27 ++++++++-----
arch/x86_64/ia32/ia32entry.S | 17 ++++++-----
arch/x86_64/kernel/asm-offsets.c | 2 -
arch/x86_64/kernel/entry.S | 44 ++++++++-----
arch/x86_64/kernel/genapic_cluster.c | 1
arch/x86_64/kernel/genapic_flat.c | 1
arch/x86_64/kernel/i387.c | 2 -
arch/x86_64/kernel/process.c | 8 ++++---
arch/x86_64/kernel/setup64.c | 16 ++++++-----
arch/x86_64/kernel/smpboot.c | 6 +++-
arch/x86_64/lib/copy_user.S | 16 ++++++-----
arch/x86_64/lib/csum-copy.S | 24 ++++++++-----
arch/x86_64/lib/getuser.S | 12 +++-----
arch/x86_64/lib/putuser.S | 12 +++-----
include/asm-x86_64/current.h | 8 -----
include/asm-x86_64/desc.h | 1
include/asm-x86_64/i387.h | 8 ++++---
include/asm-x86_64/processor.h | 10 ++-----
include/asm-x86_64/system.h | 6 +---
include/asm-x86_64/thread_info.h | 31 ++++++++-----
include/linux/seccomp.h | 15 ++++-----
include/linux/smp.h | 25 ++++++++-----
24 files changed, 145 insertions(+), 149 deletions(-)
```

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"You know, I've seen some crystals do some pretty trippy shit, man."
Don't Email: <dont@kvack.org>.

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